

SEQUENCE LISTING

<110> Nehls, Michael
Zambrowicz, Brian
Sands, Arthur T.

<120> Novel Human Polynucleotides and the Polypeptides
Encoded Thereby

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cctaataatc attcaacaaa tattaactgg gcattctcaa tggggcag 468

<210> 26
<211> 176
<212> DNA
<213> Homo sapiens

<400> 26
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agccttgaag atggggaaac tgaggctcaa ggaaggcatg taaacagcaa cctcgggatt 120
ccatttaaat tctgcctctc tggatctgct tctgatata taaaatggta ataacc 176

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<212> DNA
<213> Homo sapiens

<400> 27

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 acatggacac ttatacagc atttttctca ataaaagtga cacc 104

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 <213> Homo sapiens

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 <211> 254
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 <213> Homo sapiens

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<210> 32
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<400> 32
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 <213> Homo sapiens

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 gaaataaaac agatgatctg acag 144

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 cagttaaatc aatatcagag 140

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 taaagatacc ttgtgtctgt aacttctga ttctcaggag ctgacatgtt gatgtgtgag 360
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<210> 41
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 41
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 aagtaattca ttgctcctta ttacatttag gcacttcttt atccatcatg caggctattg 240
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<400> 42
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 <212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 358

<212> DNA

<213> Homo sapiens

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ctgcgttcag gttttcagcc atagaatatt ctagaaaaaa atagtataa catttatttc 240
accgctataa cctgaatgt gtagctgtgt tttttaaaaa aacatttttt tacaattgta 300
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<210> 47

<211> 177

<212> DNA

<213> Homo sapiens

<400> 47

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gccaaggcag	gtggatcgct	tgagcccagg	aattcaagac	aggcctgggc	aacacagcaa	120
gaccttgtct	ctataaaaaa	ataaaaaata	aaaataaaaa	taaaaaaaag	atcagtc	177

<210> 48
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 48						60
gacgtctggg	gagctcctgc	nntanntnac	actctgnnag	aacccatggc	tcataaatca	120
cccccttggc	ccaaggatga	gtacccacag	cagcaagctc	ttccattgga	aaccacgctg	180
aggaagacat	ggtcaagctc	tggcagcaga	tcaagctgtt	atggcaagaa	ttcctgggtc	240
tgcgccccca	gcatgtaata	tagaagatct	gggagtgggg	tcttgggtct	gtaatgtctg	300
tgatatggct	cctcacatct	tcttgtgtag	agtgtcatgg	ccaaaacagg	aataaccgtg	360
tttgcccttc	tgaattcccc	agtaatgagt	ctgaagctag	tctgaagcta	ccacagtcta	420
ttttaaggga	ttccataaca	tgtttgaatt	atatctatat	ggnagggact	ttcaatcagt	480
agccaagatc	tgntactaaa	attaaatncn	caatttaatt	tcacaagct	acataacctcc	536
cttcanaggc	ctgccaaaat	tnttaatgga	ggacaatgaa	agttcgtaac	cttctt	

<210> 49
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 49						60
gtgaggaact	gaaattgagc	acttgaatgc	ctggaaccac	atatccaacc	aatggcagcc	120
attgtcctct	caaagccggc	tcacttgttc	tcaagacact	ttatgtcgag	ccacagctac	180
ttcatgtact	gggagcacca	ctcctgaaga	agctgactca	gcttcaatgc	aaggaagaaa	240
gtctgactag	ttaggtggaa	catgggatct	gtaaaagcatg	gtgctgtgcg	agaggtgggtg	300
gaatgcatgg	gcaaagtatc	tctggagact	ctagcaatca	ttccgaagtc	tgtgttcaag	360
cagtaaacaa	acagcacact	cagtaaccag	tattcttgta	aagatggagg	atggtaatta	374
cattctgtga	ctag					

<210> 50
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 50						60
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tcaccagaaa	ccaacccta	ctggcacctt	aatcttggac	ttccagtctc	cagaactgat	180
gcagtagaaa	tgaggccatg	tgactctcca	cgctggagga	ggacaggcac	tgaggcttcc	240
gccagctcgc	tcttgcttgt	gtgatgcctg	cccttggaa	ccagccaccg	taccgtgagg	300
aagccaagca	gccacgtgga	aaggccatta	caggtgttcc	agccacagtt	ctcatggagg	360
tcacagctaa	tagctggcat	cagctgccag	acatcacacg	gtgagggaga	ctgcacaaga	420
ttctagcctc	cgccccctga	tgctccaact	ttgaaccagc	ccacctcact	tgagtgccgc	480
agagagaatt	gagtattatt	gctgaactct	gcccacagtg	cagtttgtat	gcaaaatact	540
tcttccctta	ttttaaagtg	ataacttttt	ggagagactt	ttttacacaa	caagtagata	595
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<210> 51
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 51						60
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ggagtctgca	ttaaaaacac	tactctgggt	agagataaag	aaagggactc	tctgagatga	180
gggaaaagca	gtggtttcta	atctgtggtc	cagagatctc	tgctgggatg	aagaatatgg	240
agggagaaac	aagagttatt	gtaaagggtc	tacaaagctc	tacgtatgca	aagcactatc	268
tatagactga	ataaataagt	cttgacact				

<210> 52
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 52
 atatttcgct ctgaagaaac atcattagaa ataaataaat aaaattaaca tataatacct 60

<210> 53
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 53
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 tcctagagaa tggcaagacc aattcttcaa ctacttcttc agcatttctg aaacatatgg 120
 aagatggccc attgtgctct ctttaattctt tgataatctg gacattgact ttccattat 180
 atgacctggg cttgtgggca tcatgtcata atgcacctgt tcagacatct ccctgtacca 240
 atatggatca cttgaagaga ctcttttgcc tccatcaaaa aggatacagn tgtgtatctc 300
 ttccattttt gnttacagn cctaaaatta tttgagcagg ttttcacctc ttctctgaat 360
 aaacacctta ttagtcctta aaangaaang aaaaagggaa aataaaactt ttaaattgca 419

<210> 54
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 54
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 taaaacttag aagagggtcac cttatccaac gtcccagcca gcacagccat cttttcacag 180
 catccatgac attcagcctc ctctcagaca tgggaagatc acctcttcat gaaacagcag 240
 attcttcaag gataaggaaa tggaggaaca aagcagtga gtaatctgtc caaagcccaa 300
 aagttgaatt gttgaaactg acatctgaaa gcaagtagcc tggcttcaga gtatatgctt 360
 ttaatcgctg tggtatatac tgctcttcta tatgtgataa tatagtatat ttattaagtt 420
 attaaaagaa acataagttt ctttgttgct 450

<210> 55
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 55
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 tgctctgac attttcaagc ctaaaagatca agagccatca tcttttacia gagttgcagt 120
 ttggtcttaa cctccaaaaa agaaacttct aataaatact atttccttct gt 172

<210> 56
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 56
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 aagaagaaaa agacaagttg aactgtctta aattccagcc catgaaagcc ttcctttttt 180
 taaataaagt ttttgttttg ttttggctctg g 211

<210> 57
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 57
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aatttcaa at tccagcctc cagaactgct ccaagaaatg gaattttatt aaaagatgga 120
agaggagat atttgagaga aggggaacta cctaatactg aaaactaata cagtccagga 180
tacatagaag atgatcaata acacttatcc aatctaaatt accctatcag caagtggaga 240
gttctctctc gggagtgcctg ttttctttcc tgccagtcag ctctgtcagg ttgaatagaa 300
agcgataaat aaagaggaaa agaattcc 328

<210> 58
<211> 208
<212> DNA
<213> Homo sapiens

<400> 58
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catgtgatat ctgcacttgg aggcctcctct tctctttctg ccatgaatga aagcagcttg 120
agaccctcac cagatacaga tgctgggtgcc atgctctctg tacagcctgt agaccatgag 180
ccaaataaac ctgttttctt cacaatt 208

<210> 59
<211> 334
<212> DNA
<213> Homo sapiens

<400> 59
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agacaaaagtc tcaaagagac tccgttttgg tcaacaatta gcccttcac atttggatcc 120
tgggccacat gtggaaataa agagttccag aagaattctc ccatgaaggc attggaatgc 180
ttcaatacat agttttgtgc caaatctaca ataattctcc caaaagaaag actcttcagt 240
gttctggatt tttcgggact tntcttattt tcttgtgcaa catcttaaca caaactagaa 300
taaagatgac atataatcat ctgcattcat gaat 334

<210> 60
<211> 177
<212> DNA
<213> Homo sapiens

<400> 60
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ccagtccttg caaccactga tctgcctcct cctctctatgg cgtcacctgt ttggaacatt 120
tcattgtaa at ggaaccatac aagatgtgac cttttgtgac tggcttctct cacttgg 177

<210> 61
<211> 381
<212> DNA
<213> Homo sapiens

<400> 61
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caagctggcg cccagaacc catccacagc agctttttca gtggcattat gcattcgtgg 180
tgcaagcatc cttactgtgc ttcaatcagt ggcttcagtc gtggccggcg cacactgatg 240
gagtttcttc ctgctcgcg gtcatatttt cctctttgca tgtctgatga cttttgatta 300
gatgcaggcg ttgttcactt tccctgttga gttctgagta tatttgcatt cctattaaat 360
atccctgngt tttgctctgg g 381

<210> 62
<211> 141
<212> DNA
<213> Homo sapiens

<400> 62

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cagatTTTTg ctatttgcca gtttcgtttc atgaatgctg gcagaagacg cctgaatcaa	120
agataaaggc tgtttttact c	141

<210> 63
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 63						60
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gacaggagag ctcagggtcg aagtcggccc ggccgcctgg agctccaagg ggacaaatgg						180
agcccagggt caaccgcagc cagggaggca acgtctgtgc acctgcaact tcccatggca						240
ttgcccact caatggctca agaacctgcc ctgtcctgct tcggggcccag cattccatcc						300
tctgaaagaa cacgagcgtc cccacatgct ccgtaggac catcctgcct ctgcctccc						360
cacttcacca gaagaactcc tctcctcctc tctgggcca cttggcagca actcctccgg						420
gaagccttcc ttgctctccc aagacacgga caggcaccct tcgtacgtgc caatagcatt						480
cccatcagca gttgtcacac acacaaggct catgacctcc ctccccacct gtgccccag						540
gggaggggct tncctggggg cagggccatt tcgtcgtcat cttccagcac cacacacact						581
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<210> 64
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 64						60
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tggtgctgag aacacttggt cccacttctc tagcaggcaa ggatctgggc aggacaacaa						180
ccacaggcat gtgctttctc atcatgtgat gtcactctgc aggtcatgat gcagcaagaa						240
ggccctcacc agatgccacc cctccagaac catgagccaa ataatgtct gttctttata						244
aatg						

<210> 65
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 65						60
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gcctgtggcc ttccagctat tcagtcaaca gcatatgaaa atgcagttca ttaaaagtaa						180
accatccaag tcacctgttc actgtggctt cctgtcagga gggacagttt agatgacttc						240
ttggagcctg tcaactcgta ctgcaactgat ggtatcagat gcaagctggg gaatttggaa						300
tgctatctgc aatagtgaca tctggtggct tctaagttct actgcacctc cttaaggcag						360
gaaagcaagc ctggctttta agcagtattt gtgaaaaaat aaaggaatta catgagttct						362
gg						

<210> 66
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 66						60
ggtctatgct acaccacctt ntgcttacac cgaaacaaaa gcgngtggag ggagctgagc						120
ccagagaggg atgatgcagg ctcttcacaga acctgtgtcc tatgcctcaa gccttctttc						180
cctcctgctc gctgacaact gctgaagcag aaactaagat tacgacacta ggtggcagca						240
tnatcccacg ggaagacaac ttgagtttgg ggagaccacc ccccgccaaa ctcaacacaa						300
tttgagaggg ctccacgaaa aagaccagcc cccaaataac agggagactc tgcaatgctt						360
ggtttccagt gatgatcaac actttaaggg ccaatggaat tcacccttac aggggaaagg						418
ggaccgttga antancctgg gngggggagg ggcattgctc agaaacccta cctaattgc						

<210> 67

<211> 322
 <212> DNA
 <213> Homo sapiens

<400> 67
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 tcaaaagatg agtaaaggaa agtctgctat ttccagagtc cacttgctct gagctgggtt 120
 tcttctaaac cacatcacaa aagagcacga tgctgtgaac ctctcctttg gactcaagtg 180
 tactaatggg gaggaatggc aagttacatg cattatttct ggattctata aaaatgaaag 240
 tgatgggaat taaaaataag ttcattaata ttgtaattta tagttctgaa gagcttttagc 300
 aaataaacta aacattccaa at 322

<210> 68
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 68
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 ggtggggcgc atgcccgcga ctggactgaa agctgagtc caggaatcgt acccctgcag 120
 cgggccaggc cctccaggga gggacaccgc gcccttggtg ggagatgtcc acagtagaca 180
 aaggcagttt cgaaataaaa gaatgcctgt caccacagggt gccaccccgga cccttagtta 240
 ttatgcactg gtcccacaaga gcaatttctg cgctgctggt gcaaaaattc atcgtaatga 300
 aataaacgta aaagggg 317

<210> 69
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 69
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 gccggacttg ctctccttcg cctaggtttg cactcagagc aagagagaa ataggagaga 180
 ggaagagaga aaggtaccgt cctgacaggt actttcctgg ctatcacaga aagaacaagc 240
 ctttcatggt ttattgggaa ccaagctcag gtgtccctgg aggcagagct acgtggaccc 300
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 ctttgcccca actgttaaga ggactgacca ttttaacaagg gggagctggt gagatgactg 420
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 tttggaggnc tttcctggat caacagatgg aggacttttc aaaagcagac gaaagtgaat 600
 gggatcactc acacctctgc ttcggacaca gngaagccca gatggagaag aaagaaaact 660
 tggncaaaagc tatacttg 678

<210> 70
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 70
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 atcccagagg agaagccatc tgagatcggg aggaggagaa atggaacatc aggcggagga 120
 aacagcccag acaatcgcac tgggacgtga aaacccttgg gctgcatgag gggagaaaac 180
 cagaattggg gatggttagg gttttggagg gaaacacagg gacatgtgac caaaaataat 240
 aataactact gttactt 257

<210> 71
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 71

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atgtcttttag	agacttagaa	aagaccagca	agcttcttta	caaaatgggc	tcttcaatcc	120
tggcatccac	ttgggaccaa	tgagatggga	tggtcactct	catagatttt	cacatatgta	180
tctttaatgg	tatccccagg	agcctctgaa	gtgcatcagg	actttatttc	aatgaagttc	240
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cctacttata	agattggcaa	aaannaaacc	aggtcataaa	accccttttg	gtaaatatat	420
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atatatatata	t					491

<210> 72
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 72						60
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ttgcacccag	acacggcatc	tcagacactg	cacaaattaa	gaagtcaccc	tcaaaacctc	180
tatacagtgc	aggaatacag	ctaagacacc	acacccgagt	actaacatct	gcaaattctg	196
aaaagctcct	cataat					

<210> 73
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 73						60
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cccaaagaac	aggatggtgt	cgaagactga	atgccagcct	gaggaaacag	aaatactaca	240
gaagcacgcc	agagcctgca	gtgtctcctc	gctgcctctc	aatgaactgc	taaaagacca	300
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<210> 74
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 74						60
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ccggcctcat	ggccttttgg	ggttgtcggt	tggaaatggag	atgacacgag	tgctgcatgt	180
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gcttgaaaaa	agttctccac	agaagtaatg	accctggact	tgcagaagag	agcgctaaaag	360
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<210> 75
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 75						60
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ccagtcttat	ctccgtcctt	atcaccacct	taccatgtca	tcctggcgaa	gatgccatca	180
caggagtcag	ggttgaagtc	caggtttaag	gtgcatctag	atgggttccc	aggacgcctg	

aagtagcctc	aagaggccca	aaagaaaaag	ctcctctggc	acagtctcct	aatggtgaca	240
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attatttccc	actgaaattc	aaacctaat	catttatctt	ttattctcta	taaaaatgaa	360
aaacatcact	gnggcaagta	acttgctcaa	tttctnaca	aaaaataaan	aaaagggtgg	420
tggtatc						427

<210> 76
 <211> 286
 <212> DNA
 <213> Homo sapiens

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tcaccatgca	ncttatgcaa	aatagttgtc	aagctggaag	gatgcaagcc	caatctttgc	120
caccacaaag	gaagataata	aaacccatac	gggagaaaac	agagccacag	atggagacag	180
tcacattcct	ggtgacagt	tttgagcacc	tggtatccag	ccaacctgag	gccattttct	240
cctaggtctt	ttagatctgt	gaaccaataa	atccccgctt	taggag		286

<210> 77
 <211> 279
 <212> DNA
 <213> Homo sapiens

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aggaagtgat	ggttgaacac	gatgggacta	ataagaagga	aacgtagtta	gagtgatctt	180
attcatttaa	aaacaaaagc	agcaacaata	cagcagtcga	ggaaaagaat	caattctatt	240
taagcaaagc	aatttaaagt	aataaaaaat	gtttccagc			279

<210> 78
 <211> 481
 <212> DNA
 <213> Homo sapiens

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atattcagtg	gccgggagac	aatctgggtt	actacgtatg	ctgctttgtt	gtgaactgga	120
attggcatca	tgtctccaac	attctgaagc	caaggctgag	gatatacaag	gtctggaatc	180
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ttgaaaagag	agatggagac	agacaaaagaa	aaagactgaa	caactgaata	gccaattttt	300
tttaactctc	aggatgtttt	ctcctacctg	gatggacaca	atcttctgtg	gnggtacatg	360
ataagtattg	gctgggggtga	ccattccatt	tnctggnccg	cccaaggana	ttttgnaang	420
taacanaaaa	gggccatnat	atcttccctc	tctaacctgc	cttggancaa	gccctaaaaat	480
g						481

<210> 79
 <211> 200
 <212> DNA
 <213> Homo sapiens

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actggtagtc	tctcctctca	ccacccacct	cctgggggcc	tgactgtgtg	gatgaactcc	120
tcacaccag	gatttgtgtc	tccagtga	agcagcaatt	tatcctacac	tgaaaatttc	180
ctgaataaaa	acagttcacg					200

<210> 80
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 80					60
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cagaaagtga	agtctcgcaa	aggaaaaaga	caagactaaa	gggaataaac	catcgttgtg
tgggcttttt	cttccactca	gcattctctc	ccttattaaa	atgagaggga	taacttaag
					239

<210> 81
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 81					60
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gaaagtttca	caagcacact	ttgttcagtt	ctgcagctta	ccaggaacac	tagaaagcac
tccagcactg	tgcttggggg	ccatttgaaa	cagcaaaaatc	atcaacaaaa	accacaaaaa
tgcaaaaaacc	atggcactaa	atagaccatg	aaaaggacac	ctgtttactg	catgacctga
aacaagaagg	cggagcgttg	ccttgttcga	cttcagctgg	gaagataggc	gtcaggggac
tcaaaccttt	cagcactctg	ttatatctgn	gaatgatcac	aaaaaaactg	gggagtnnta
tttttggggg	ttacnaataa	atttttacca	agtaagcttg	nttcacaaat	acanaattnt
ggggataatg	aaaat				495

<210> 82
 <211> 98
 <212> DNA
 <213> Homo sapiens

<400> 82					60
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aaaaccagga	aaagatggct	catggaagca	aagaaaac		
					98

<210> 83
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 83					60
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gaggaagagt	ctgagctgca	tatgtcaaga	aggagaaagg	ggaaagaagc	aaggagcgag
accagaggga	gccacgcaga	aacctctggc	ctctctgcac	gtctgtctta	tcctacagag
tggcgactct	aaaaggccaa	gggtgccagc	gcccagcgac	agttcacagc	ctgagacacg
ctttgctcac	acgcctccct	cctctcttgg	ctcctacctg	ataaaaagca	ttaccggttt
tgatgttttc	aacctcccc	attttccctg	gtgaaagatc	cattcatttc	agtgtcaaca
agacatcata	agcagggaga	aggaacaaaa	ggcanantgt	gtntttaagg	agggaggcan
tttgcaaaag	cncactntt	ttcaccttgt	ccacagaata	aagggttgaa	gactaaaaaa
aaaatt					486

<210> 84
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 84					60
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cacncantcg	agtgtggagg	ccccgaggaa	gatcanctnt	naanacacag	gcaggcaaag
ggcagacctc	taaggagatg	gangangaat	gacanagggc	nngaagaatc	ntgtgaggga
ctgnacanana	agccagtgc	naaaacttnc	agaagagctg	ncaacagtac	caaacaaagc
agaagagtct	caaaaagatta	aaaataaaa	ttgcttccat		
					280

<210> 85
 <211> 408
 <212> DNA

<213> Homo sapiens

<400> 85
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tcctggaagc agcttcgagg aaatgcccag acccctgggg ggtgatgtgg tggcaagggtg 180
acaaaggggc aggtcacaaac gctgtcacia gctgatatgc aagaactcac aggcagacc 240
cccaggggct atgggtgtaa gggcatctgc tctgcccttt ccagcggggc tagttttggt 300
ggcctctgtt ccattttatt gcttaggaac acaaagctga atgcactgtt tgcaggaagt 360
tgtgtgtcta agtcaccta gtttagtaaaa taaataaaaa ccttttgg 408

<210> 86

<211> 477

<212> DNA

<213> Homo sapiens

<400> 86
acatgtctgt cccaaacagt gcctttgaat caagaccag tcatcgtatt cgaagaaaaa 60
ggaaatatcc ctgacatgt tgggacttaa cactgcttca cagagctacc caaaccaagg 120
agaataccaa cgtgaattgt cttccacct gttgtgtggg gccagcaatt attcttttag 180
cttgacgcgt taaccacct gctccctgtg gccctgggat gctctgccat cccccgtggc 240
tgccagttca cttagggtag acttatggca gagggatgtc aattttgctt gaactgtcga 300
atcactgtct acatttcgtt aaccacccta tgaacttctc aagcctgaag tagcagcaac 360
ttgtgccctt gaaaactgaa cagaaaacaa ctggattgna ttttttcttt caccaggaaa 420
aaagacaatt tttntttgt tganaangtc ataaaggcat tttaccact tattttt 477

<210> 87

<211> 500

<212> DNA

<213> Homo sapiens

<400> 87
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aaccactccc cctggaagct tgtttcctgc actgttaaga gcatggacc tgaaggcgga 180
ctacctggat tcaaacccta cctccacctc ttattgggag aatgacctg tgtaaatgac 240
atcacttctg tgtctcagtt aacacgcctg taaaatggaa ataatatcta tttgtgatgg 300
ttaagtttta tgtgccaact tgactgagtc agagaatacc gagacagcag gtaaaacatt 360
atttctgagt gtctatgaag ggtgnatctg gaaaaaanta cntttggaat ccgtngaaaa 420
ggggcaagna anatctgggg cggntcatct gggnatcatc caatccactg gagggctcac 480
ccaaatagaa caaaaaggct 500

<210> 88

<211> 381

<212> DNA

<213> Homo sapiens

<400> 88
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aaagtgcgta tagctgcgtt tgagaaggct tagtcatgac tagaaaagtg tgaatactgt 120
gacatactct tgcaaaaaaa tggtcagctt aagcctctan actaacttct ggtttacaag 180
aanaaaaaag agggggccat ttccaaaaag actcctgcct tgaactcttc aaaatgccna 240
tgncacaggg ggaaaaaaga tgggggaact ctactacntt aaagctaaag aaaaatttna 300
aaaaaaaan gaaaaaaagg gccngcngg ccnattnagc ttggacttan ccaggctgaa 360
cttgnntnaaa agggggggga c 381

<210> 89

<211> 458

<212> DNA

<213> Homo sapiens

<400> 89

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ataaccttcg gagaagagag atgctctcgg tgccagtggg ggaagaaagg actataacta	120
cacttatgtc gagactgcaa aggctaacag catcttcac ttgggtgctc tgtttccgct	180
ttcgctgcaa aacaaacgaa aaaacaaagt tcaaaggcat gcagccctct ccagtccaat	240
tcaacacact acccagcttt ggagccaagc ctcatgagtt cccccaaccc agttcctgcc	300
agatactgcc acctgtcca agtgtcaaat ccagaagaca aatggcctcc aatggctctt	360
ttaattcagc catagacagt caatctggga tagaatgatc tccttaagga acccacatgt	420
tttataaaat aaaaactgca tgaattatca aaaaaaaa	458

<210> 90
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 90	
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gaacatgtct gcggtagcca ctggtccaag gagaatgagg aaatatgtag agcagctttg	120
aacctaataca gcagtctgaa gtcaagccca gtggattcca gccaaagcaca gcagaaccac	180
agccaatcta tagaactatg agagaggaaa taaatatattg tggctat	227

<210> 91
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 91	
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gtgtttttagt gggttttattt ggaggggcat gggctggaaa ggagcgggca gagatgcagg	120
gcaaatctat aaaacatttt gaacttgctg cctataaacc accaaacatc atgcagggtca	180
ctgatgtgag gatctgctgg gcttatggca tttgtgacaa acccaatgat tcttttatta	240
caacagctta taaatg	256

<210> 92
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 92	
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ttaacgagga ggaacggatt tgtccatctg accacaaccc aaattgcttg aaaatttggg	120
cagctgtgtt aacagggaaa gaagttggga catggagttg gacagacctg gctttgagac	180
tctgcctcat cacgacctcg ctgtgtgttc cctctgaact tagctttcta tattaacaaa	240
atgaggccaa taataattcc accctgtctg cattccaggg caattaaaga atcataaatt	300
ggcct	305

<210> 93
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 93	
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ggacatgaaa ctaagcattc tggctccaga gtccacgttt ttaactcaac cggaatactc	120
agcaatggct gagtctacgc cctgtcgtcc cctcctgggt ctcacagaat ggaaataaat	180
gtctcaactc	190

<210> 94
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 94

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ggttttacgg	cccaggcact	gttgagcaga	ccactatgtg	gaaagccagg	gaggataata	120
gcagccccc	aatgaggcca	cgagccccag	aaccatcctg	attgctccct	ctgaggtgat	180
ggacagagga	aattttccct	ccaaggactg	acagagaaag	aacaacggag	atgtggctgt	240
ctgctggcat	ccattaactt	gtgcaactag	caaagcaccg	agtccacagg	gaaaagggag	300
agaaagtgtg	aatgaagggtg	caattgtgtg	tgggaaggctg	agtgtgggtca	caggaaaatt	360
gcctcatnct	tgtattgnaa	tggcatcttt	tattncctca	acccaagggt	tntaaagtan	420
gttccctntt	ccttttctnta	agccaagcac	ccttatgcca	ccatcatntn	tnacttanac	480
cacaacttta	tectnctgac	atgtttacc				509

<210> 95
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 95						60
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cagcagagct	gcagctcgtc	tcagtcctgt	ggatcacacc	atggcctgga	aggaaaagtt	180
tagggcaata	taacccccta	caaacaacct	tccgacaaga	ggacaagtgt	tttcacaagg	240
cttcatggaa	tgtcgaagtg	gaggaacaaa	acacttcagc	tggaaagata	gcacatagcc	300
agaagtcaac	cccaacccta	ccaaaaataa	tgatgccagg	aaacagagct	acatacacia	360
aagggaatgt	gtaccaggat	acacataata	aagtccccctg	gccaaagctg	ggattcctcc	419
tggccaagcc	agaggagtga	ttcaacttaa	gagaaaattg	gaaggaggac	atgtggaat	

<210> 96
 <211> 95
 <212> DNA
 <213> Homo sapiens

<400> 96						60
gctggaagga	tgacctcgga	agtcacatgc	tgaagatgga	agacatgttg	tagtgctgca	95
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<210> 97
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 97						60
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gtagtcacag	ctccaaagac	tctgggtttt	ggagtaagag	ctgtaactgc	tcaagaagaa	180
ttcgtgaaca	aaagcacatc	tctctgagga	ggcaaaatat	cacaggccta	tgacaccaga	240
ctgctggaag	aggcactaga	ggttgacaat	agattccaac	atctcataaa	ccaggaagca	300
gcctcaggaa	ggttggcagc	tgccaaaccc	acaggctaag	cagtgggtggg	actgtgatcc	360
aaactcagat	attttggttc	atctgccagg	aaatttttcc	tgtcctggaa	ttatctgctc	420
ttctcaagaa	ggaaaaactt	aatccttctt	antcctgaaa	cccatcctag	gaaaggcaag	480
aagggaatgc	nccaaaatgt	taactgnngt	tgacactgaa	gggggaattn	gggctttgtc	505
tattttttct	gcattgaccc	atctg				

<210> 98
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 98						60
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taaacaagga	agtttgtgtt	ccaaggtaag	agaacctgaa	atgaaaaact	caggatccct	180
cacgaacagc	ctgacctctg	tttcaaccag	gaagttcaag	ggaggcagga	ctttacggtc	240
aaaactgcaa	agccgaagct	caagactgta	agaagaaagt	gatcttcaaa	gaaaaggatt	300
cacccaaatc	gaagaggata	tcgtttcgca	tcagggacac	tcgtctccac	acctcctacc	360
tcaaagtcct	acgcacctac	ccttcacgtc	tctncaaagc	aactgaatta	aagcgcttac	420
tggtgttgcc	ggngcaagga	atttaattca	ggaactatng	gggaaaaaag	cagggggagga	

agaaanagga aagacccggg ctgaggcacc aggaagaagg gacgcacaag aacctatcat 480
 tggagcttgt tgcaggccag 500

<210> 99
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 99
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 gtggagcacc aggggtggaga gagggtgaata agcagcaaaa cgaaaaattg gatgctgttt 120
 tcaaaagttt tgttctcatt cttgggattat agattatcta aagggaataa ttaactcaac 180
 caaaaaattc gttcagctcc atgaagctaa agatgctata aactgactct ttcctaaaga 240
 gcaccaaacc tgaattttt cctgctagag aggaactaat cttcaaggac acctgtctat 300
 tgctagacat taagaaggaa ggtgaactcc gttctgtctt cataaaacac atttttgnct 360
 ttccccctta cttcttctact gaaccccttt tgtttacaaa gtccaagctn tgactggngg 420
 aggggggaaa atctgaaact gtcagcccca aggnngaaca aatgaaang gagaaaaaaa 480
 at 482

<210> 100
 <211> 508
 <212> DNA
 <213> Homo sapiens

<400> 100
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 gatgagacct gttttgaaaa cgaagtttta gaggaactat gtgaacagat tgtgttcttc 180
 aggggcctgg cacatgatga catctaacac ccacggccaa cagcattcat aatcaccaat 240
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 accacccttt gtcacccttg agacttataa ccaggccagg cgcgatgggt catgcctata 480
 atctcagcac gatgggaggc cgaggcaa 508

<210> 101
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 101
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 agtcaataag atgaaatgat gaagtaaag taaacatgat acagactgag gccattgggt 180
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 agaattagaa tgcagtagga aaatgaatta acatctgata agaaaagaaa ccaaagagtn 300
 aagacctgta gttctgcaac acagatgctc atcagaaaaa tgtgggtaac cttttcaata 360
 ataaaaccct ggaccc 376

<210> 102
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 102
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 agaataagaa acctgaagaa tacatttttg ttggaagaat agaaagtctg cctagagngt 180
 ctttggaatg ccagaggatg agatccgtct tgtttactaa gagttgtnac ggntccccctc 240
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 tttg 304

<210> 103
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 103
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 atggtctcct cantaaaaac aaggccgtan gntttntttg ggctttcgcc aatgcaacc 480
 tgcctntccg gccggtgcc a 501

<210> 104
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 104
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 gngaaagagt cacttttctt tgaggaagaa agaaggctct gtgtgcaggg caaggggtaca 180
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 ttctcttggc tctggagggn ggagaggaag gacttgcttt acccaagggt ctataaggaa 360
 tcttgggaaa gacactgccc cttaaatac ttttgggca ctggtgtcac ctttgtgtca 420
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<210> 105
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 105
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 gtcaacagct ctgtttgagt aaatgatcca tccttgaatc gtgtatgcag agacaagatc 180
 agcagttgga ttgtttgttt aataaactgg aagcttgcca acattatctg ggaagaggac 240
 gaggacatta atgctagcat gcaatctagc cgtgtttgga ttaagacag aatttaactc 300
 tcttgccctc tttcctttcc ctccctccct tttcagncct tttttcctta atacacaagt 360
 ctcttttatg gagttaactc aagctatctt aaacagcatg aactaataaa ggca 414

<210> 106
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 106
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 aggatgaaga cttttatgat gatccatttc catttggtga atgcctcttt caaaagaaga 180
 cgtaagacat ctgggtgtcaa gaagaataaa tacaatacca ttaaagaatt ataaacagaa 240
 ccagagccag agaagaatac catttttact tgacagatga ctgacacaaa acttggttac 300
 acagacgaag tatttaagca agatactttc tcgaaaatga acaacacgcc gactgncatt 360
 tcaaggaaac caactgcaa catttcctgt taggacaaaa tacaagtttt caaccaaata 420
 ttagaattta ggaca 435

<210> 107
 <211> 437

<212> DNA
<213> Homo sapiens

<400> 107
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ggnggtttgc ttaaatg 437

<210> 108
<211> 383
<212> DNA
<213> Homo sapiens

<400> 108
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gcaaggaacc acagcctgcc aacaaccata agagcctgcg tgggagggga ccttccagcc 180
cccattgaca gcctgagtgc aactccatga gagacgctga ggagaatcaa gttagctaagc 240
ccttctctcaa ttcctgactc tcacaaactg tgcaagataa taaagattcn ctcttttcag 300
ctgcaaaaaa aaaaagggnc ngggggggccn tttnggtngg ncttnancng ggggaanttn 360
tttnaaaggg gggggccccc ccc 383

<210> 109
<211> 79
<212> DNA
<213> Homo sapiens

<400> 109
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atccctaggc attatatat 79

<210> 110
<211> 473
<212> DNA
<213> Homo sapiens

<400> 110
ttctgtgnacc tcaagcggca tccctggggc ctggtctcca agtcccgatc ctgtctgaaa 60
aatggcgctg aaggcctagc acanggcagc ctctacctca aagcaccatc ccgcttaaca 120
ttccaacggg gcctnaaang aaaaaccctn tgggtggggc caccacaaac ccctggcctc 180
catgtgtctc ttcctggccc caaggacagc ttgacactnt ccaggaagna aaggccaang 240
ggnaaccccc tttgcaanaa nacttatttc ttaaaaaaga tctnggnttn tanantcaan 300
ggggacctgg gtttnaaagt ccccggcatt ttgcccctct tgaacttcac canttgtttc 360
aacnctttt ngggccactt ccacctttnc cccttcatnc tngggaaacc ctccangttt 420
ttncctccat tctggggnaa gtccaagggg ggnggggngg ggaccccacc ctt 473

<210> 111
<211> 417
<212> DNA
<213> Homo sapiens

<400> 111
ttctgtcacc tcaagcggca tccctggggc ctggtctcca agtcccgatc ctgtctgaaa 60
aatggcctga aggcctagca cagggcagcc tctacctcaa agcaccatcc ggcttaacat 120
cccagcgggt cctcagatga gaagccctgt ggtgggggtc accagaaacc cctggcctcc 180
atgtctcctt cctggcccca aggacagctg acactgtcca ggaggaaagg gcaaagggga 240
agcacgtggc aagacactca tttctcagaa agtctgggtt aggagtcagg ggacctgggt 300

tcaagtcctcg catctgcctc tgactcacia gtgncacett tgggcactta ctttcccttc 360
gctggacctc agtttctca tctgggagtc aaggggggtg gaccagctga tctccgg 417

<210> 112
<211> 262
<212> DNA
<213> Homo sapiens

<400> 112
agatgggggtt ccatcatgat gccagactg gtcttgaact cctgagctca agctatccac 60
ccaccttggc tgaaatggcc tgacatgat agcactggc gtgacccaaa gatggaatga 120
agaacatgaa tggatgactg tttccttagc aacaagaacc atatgtttcc tttgaaacaa 180
gaaacaaaaa gaaaagtcc catccatctt tctttccacc aattcaaaga ctaaatagta 240
gtggcttaaa attataatgt tt 262

<210> 113
<211> 229
<212> DNA
<213> Homo sapiens

<400> 113
gctcaaccaa atgcctctgc caggagaatc tttcagagtg tcttgaaca ttggaaatag 60
gcttaaaagct taaatgatga atcagaagag ttatgctgta ttctaagtct gccactaggg 120
ccacacaggg tgccaacatc caatctcaag atcttcggga aatatgctca cctccaaaa 180
tacttacaga tgtgtctcct cttttttgta aaataaatgc tcttcttat 229

<210> 114
<211> 318
<212> DNA
<213> Homo sapiens

<400> 114
gtgctgcaat caagagaaaag agacagagcc aactgacaa gaccacgttc tagagagaag 60
gaaatatgag aggtctcaagg gcagggtgtg gaggacaagc aggggagatg agatgaggag 120
ctggctgcat ccaaactgca atgaacctat accatagaac acagaacaca aacattgaac 180
ctgctgagcc tgtatgaagc tactatccca ggactgtgaa aagtagacta gttgaggaag 240
aattcaagtc gacactgaac tagtggtaga gctctcatca tacagatcgt tggaaagtag 300
catcccgaca gttctgag 318

<210> 115
<211> 426
<212> DNA
<213> Homo sapiens

<400> 115
atgcacagan aatttctgac cttgngacgt ttgggagtga ggagatccca tacagaggca 60
tccangnatt tccagagatc ctgtggcngg tgaggncctgc cctcncctgga nccaactcgt 120
ctataatatc ttcttaacag cangagtgcg ctgcggggag gagaggagaa gacagactaa 180
gctgcgcgta gagcggcatc aggagcaagt taccgttagc atgtgtaaac aaaacaactc 240
gactcctctg tgtcagaatc aacaacatca aagctgataa tgtggctggt tgggatcaat 300
tagcactgga ttttgcccca agattgcttc ccaaggcgga caagtgggag ccacttcatt 360
ttccagcgac ttttacttcg ntcacgggca tatccacgcc agggctgcag aagcatttca 420
aaaggg 426

<210> 116
<211> 229
<212> DNA
<213> Homo sapiens

<400> 116
tgacacaggg agaggaaaca tcagattgct ttttatccgc atctataagc cggggtcata 60
actggagaaa aagccaccat caaccagaa ggccaacttc cataattata tgaatcgttt 120

gtgaacattt atggattaaa atgtttgagt aaagctgaaa tcggatatta cagtccatga 180
atagttcatg ccatgagaca aaaaattaaa gaaaaaaatt tcattgatt 229

<210> 117
<211> 430
<212> DNA
<213> Homo sapiens

<400> 117
catgaactga ggtgttccat ggggtggtcag ccgatctcca cccccaaggt tgccttccca 60
gagcctcaga cccatgcccc agcgttatgg agatgtcttc tggaagaacc ttaatcaaag 120
gcccaccccc acttggtctgg aggagcagca cattccaccc atgctgagag ccactggttg 180
ctcccagctt ggtctgtatc ctcttgagca gctcccaccc cctgaaatgc tttggagaag 240
aaagaagagg aggccatgtt tggaaggaat gcagcagcag ggccttgggg gagtccccgc 300
ccgggtgagg gctgtcactt accacctgga ggacctaaaa aaggcgctcag aagcattatt 360
aaacgaactt gaaaaaggcc cagtggggca agcttntggg gctggcatct tganccagtg 420
ggtgcttggc 430

<210> 118
<211> 435
<212> DNA
<213> Homo sapiens

<400> 118
cnaanctnna aagggcncnt nccagggttaa aaccncann cccaaaaaaa atnggggttaa 60
aaggetgncc ttnggctcca tcaacactct gtagccaac actttggccg caagtccact 120
ctgctatcca cagctctggg gcacttctct ggctgtctgt tagtaaccac taacctaac 180
caacctcatt ggccaggtaa aagctatcga aaataaactg aaaattgcta tctctatatg 240
nccatgaggn ttaatacagg aaaagctgat agtcaaaagt caagntcaaa tggcatttgg 300
tctccacagt gaaaaaatgn ctttangctg gaataccaaa gaactnggga ggcaacaccc 360
ggacctgnct tcaaaagatt ttnatcttcc cttttccctt ggntggcagg gcctaaaatc 420
aattcccagg gtcca 435

<210> 119
<211> 405
<212> DNA
<213> Homo sapiens

<400> 119
aaatggggaa gattgaagca aaaaatggaa cacgttaagg ctatttatga agtaagaaat 60
ggttcccctg ctactcttgt gaagtttcca ggtaccaaaa gcaaacttcc tctaacgac 120
tcagggttcc aatcttttct cccttaaaaa tacaagatcc agaagaggag ccctgtcaga 180
tttccattca acaaaaaccgn tggggttacc aaccttacac tggaaacaac aagctcaaaa 240
gtggactctg aaacttgctt tttaaaaaaa gcgtttcaag cgataagtgt aacgtgctac 300
agcaagttta gacatctgca ggtctgatgc agtcattctt tgggggggtt acccaacaga 360
cacacacagg gccaggcacc ttttcttctt tagcagcaga agaaa 405

<210> 120
<211> 424
<212> DNA
<213> Homo sapiens

<400> 120
gcgctgaccc acgaatgcaa ctctcagccg agctgtccct gccggatttc aaacagctga 60
agaagggtct ggagaacatc aaggcttggg ctaaaacaat tatggcccat gaaaggagag 120
agaagggtgaa agggagcgtc anccccctcc tgagtaacca agtcctaggg aaggagatca 180
ccancatgct gctggagcag ctctacttcc tgcagagcac tcttccacc cctccccccg 240
gaggaggagc ccaaaatacca cgccacggcc caagaatcat ttgctgttcc aaatagagaa 300
ctgggcgatg atgaaaaaag aagttcatac cgtttttcca acaccgtgaa aaggacctnt 360
taaaccctga accctcgtgt tcaagcttgt naagaataac agccaataaa aactacattg 420
agcc 424

<210> 121
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 121
 nnnnaactgaa ataangaagg atnggtcaga nanacagcca acggtgtggc caacaatcac 60
 cactccagag ccctgcccc tctagggcgc acgtgcatgc ctctgaattt cctccccctt 120
 ccttggtcca accacagtcc aggaaagcag attttctatg ccccgaggca atcacagtgg 180
 aaaatggaag tacaatggag tgctgtacct acccaagcac caggaggcag gagtcgagct 240
 actcacagac tccctagagg agaactccac gcacccaaac tctgctgtgc cccctctgag 300
 ttctgagcat gccagggtgag gcctctccct ctctntntnc cttcattcca agtttttngg 360
 aaaaanaagc aagcagccc cgtgaccaga cagagccttc cttgctaata aaccatcct 420
 ga 422

<210> 122
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 122
 gcttantagg tattccattg ngentacaga cctcatttnt tactccattc atnngntgat 60
 ggctgnanct tggctcttga gaataangca ccaangaaca tgggagngca gcaaagctca 120
 tgacattaca ggaggagcag agttctatca tgtagaaggt cattcaccgg agcatgcttc 180
 cttatcatca tctcatcttg tgccgggtata caagtaagat cagccagctg ctgaaatctc 240
 taaggaatat ctctccatgg agacagagcc agacggccca agtctcttct ctgttcttga 300
 gttcctgttt tcaagtaatg atttgataa actgggagaa ccagtttcct ttctccaac 360
 tctggcaagc tgaaattaat tctccaaaga ctctctttg gaggcaagc 409

<210> 123
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 123
 gcgctgggga gctcctgctt taagtnanan cngaaatcac ccangtcann aagganaang 60
 aaaatanaag ggcaanctcg ctgtaaagaa nggattactc aaangtngaa ccaaagccgg 120
 gggaaagaac atggaaagca gtggagaggg accaggcagg tegetttctc tttctgggtcc 180
 tcaaccacag cactgccgtc ttcagaacag taactattac ttgtccatac caggcatctt 240
 caatactcct caactcatat caagaattct gccagtgcta aacagacctc catcctacaa 300
 aacttgaaac cctaaccctaa aaccttacat atatccacct ctcaattatc cttctgaga 360
 cantatgaaa aacaaagngg cagtttcctt tactggaata agtattaaat tttgcttgg 419

<210> 124
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 124
 gagccgcaaa gacagcctgg aaagtgcag ctccacggcc atcattcccc atgagctgat 60
 tcgcacgcgg cagcttgaga gcgtacatct gaaattcaac caggagtccg gagccctcat 120
 tctctctctgc ctaaggggca ggctcctgca tggacggcac ttacatata aaagtatcac 180
 aggtgacatg gccattaccg tttgtctcca cgggagtggg aggcgccttt gccactgagg 240
 agcatcctta cgcggtcat ggaccctggg taaaaattct gttgaccgaa gagttttag 300
 agaaaatgtt ggaggattta gaaagatttg acttcttcca gangaattca aacttcccaa 360
 agagtacagc tggcctgaaa agaagctgaa ggtctccatc ctgcctgacg 410

<210> 125
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 125
cnnanactga gagataggan ctcgctacgg ttgcctgggc tcaaactcct gggcccaagc 60
catcttccag catttgccct ccaaagttct gggattacag ggcctgcaca ccaatgaaac 120
tactgatata agctgttctg aagaaaacca gaagagactg aatcaccaaa gactgcagtt 180
tccacatcct gatgatttta tcctccttac tctgaccaa cagtgacctc aattttacag 240
ccctcacac cctataatca tcctaaaaac ttcagcccag aactcctcag gaggataatt 300
tgagggtttc tcccatattc ttatttggct gcctgtaat cattaaacac tttctctg 358

<210> 126
<211> 488
<212> DNA
<213> Homo sapiens

<400> 126
gtctggggag ctctctgcann annctgnac tgagagttgg ctnangagaa gatcaagagt 60
gccatctgga agctcagggc natgagaaca acctggggcc tggctcttca agccaccatc 120
aaccacaataa tcaacanaaa cccagagggg aaacgacctc ctttcagcan gactgggaaa 180
cccttgaagg caggaactga gccttcattc cagcactaac tcaacaaaca tttcctgagc 240
tgtccctgaa gccaggccct ggctgagaat gctgaaaaga ttcagagcag atacacgtgg 300
gctctatcac acaaatttca tccatgtgtn ctaccaagt gataccactt gctctttctc 360
tgggctnccc cagtcctga cacagaactt tttggtcacc aacctaatca ttcanggatt 420
ataactgttt acatgtcagt ctctctctct cgctccctga cagcagggat atggnctggc 480
cttaatgc 488

<210> 127
<211> 437
<212> DNA
<213> Homo sapiens

<400> 127
gtgaggnac acgtgnaaca acacgntgtn tgtgaaccat gaaagggagc ttcgacngac 60
accnnacctg ccacagcctt gatcttaacc tttgcnagag ncacaactga gagannatnn 120
nnnntgtggt ttataaccca nccagntat gatattntgc tncannaacc tgaatggact 180
aagacnctcc ccaccatgan aatgtccaaa cataatnga cagatgtctt tacatcantn 240
gtggatgctg ngacanaggc ntttacaac acagagcaac ccagggagct gatcagcatg 300
aatgaggctg gaaggaggct cananaatcc atctttccag tgaacttgga acaccagaaa 360
caagtggagc anaggggaga gaatntcttt gaaaacgcag ttgggagaca gagccangta 420
acgggaaaga aacaagg 437

<210> 128
<211> 438
<212> DNA
<213> Homo sapiens

<400> 128
attaaaaaga aaaaagaaaa tcaggtggga taaagagcct caggtctaac tgaattgtca 60
actaatgatg gtctgagagt acctgtgctg aaatggaatt gtctttgagt ggacacttct 120
tagatgagac ctattgtggc caatagctcc tgagggaactg aagccttcag ttcaaaactt 180
gtgtgagaaa aatgaatctt gccaaactact ggagtgaact tagaaatgaa tccatcccca 240
gttgaccctt gaattgtagc ttgtcagaga cccagagaca aagcatcctg ctaatctgca 300
ctgggttcta ggcccacaga aacctatggg taataacttt gtgntgnttt taacccttg 360
aaaccaacca aataaaatcc ttaagatgtt cccctgngga agggttccat tggcagggat 420
ctgcacttca caaccaa 438

<210> 129
<211> 442
<212> DNA
<213> Homo sapiens

<400> 129
ggcaaattaa cccagaagag tacttcagag aacacagaca aactgccgtg cagtgaagag 60
aatgtggcag gaagccctgg tattctagaa gaagctctgc ccactccaga caggatccgc 120

acgcctagtg	ccatgtctat	ctccaaggag	atcacattct	agagccaagg	accgccactg	180
agaagaaagt	aaccgtgagc	cgtcagaatg	catacctgga	gcgctccagg	aaggaaatct	240
cagccccggc	atcctccatg	gtcacacgga	gagggcggtt	gtccttgtag	ctttggccct	300
gagatgggag	ctagagctgg	acacaggggt	ctagtctctg	cttttgtgga	aacaagttcc	360
caaacctggn	gcaagngcct	tacctgtctg	ngtaatgggg	ggagctgatg	tggatcatct	420
ttaagccctc	tgcaagatgg	ag				442

<210> 130
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 130						60
gaggtggagt	cttgccatgc	ccttccatta	caaaatcctc	ctgttccacc	tgcaaaggca	120
agcaccacag	gtcagcagca	gtcagtaact	acaatgcgac	tcaactccaag	aaccacacc	180
tgccctgtgc	agaaccacag	ggccgtttca	ctgtggggca	cagaacagaa	gcctgggcca	240
atggttttca	aacttctcct	tgagtgatta	gatctgcaga	aaaaaggaaa	catgttgatc	300
ggcaaaacac	ataactctga	caaaggatta	gcacttagaa	tataaaagaa	cggtgatgaa	360
tcaatgagac	aaagacagcc	tactagaaaa	atctggaaat	aacccaagcc	gggaatttcn	420
ntgaagagaa	cacataaanc	gtntaactat	atgaaaagat	attcaatctt	atgtcagtca	440
agaaaatgca	aattaaaacc					

<210> 131
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 131						60
gaagaaaatg	ttaaaaagta	ataaccaaag	aaaaagtcag	ccaactccca	cagcctggtc	120
ttgctgtgct	gaatggcaga	gaagatcaca	gaggaagaaa	aaagaaaaag	acagaaaaaa	180
ggaggcggag	aatttcttgc	ttaaactgga	cctagtccag	ctggcaagaa	gaggtggttt	240
tcttaacgcc	tgcaaaacct	gattactttt	tttaaaggaa	tgaagaagaa	ggagatgtaa	300
acacagccat	taaaacagat	ttaaggtact	tagttttaat	ctagtctaag	accttttcaa	360
ttgtatgctg	ctctgcaatt	ctctgcttgc	tagacattaa	tacngngcat	aagcccntgg	420
tcagngtctt	ttaaccagng	aacgctttca	gctgagctct	gnggttacc	tctcaggtca	434
ggcatggaag	gcct					

<210> 132
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 132						60
gtaaacccag	ttcactcagg	cagaagcaag	aggaagaaca	ttcctccagc	tcctcctcat	120
gcaggcccg	gaggtgggag	ggcattctgc	cagcccagta	tatccacttt	gcttcgacaa	180
atgtcagcct	gcccgagaata	aggaagtacc	cacagccggg	aaaggtaaat	ccaaaccctg	240
aaaagacaga	tactgagcat	ttgaaataac	acagcttgca	gcgtccttgc	ggagccctgt	300
ttatggggca	ataaaccatt	taaacgactg	tgtgttgga	cccacaaggt	cgcttgaaa	360
ggcttttcac	agacactgct	agtagggtc	caggacctct	ngaaggccna	gatngggggg	420
nttttttgc	tntgcttgaa	gcttgntgg	tcccctccat	cangaacgcc	agcccttgga	437
gaggctgcca	tgagaaa					

<210> 133
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 133						60
gaagaaacac	aagattttaag	gttgtttgc	aactgacagc	cctttctatc	aacaactaaa	120
taaaaaaatc	tgtattccag	aaacatgaca	cttcatgtac	cacccatttt	cctcataaga	180
aaccaaagg	tgccatgac	ttaggtacta	aatggcaagg	ctggaaccag	aatccaagtt	240
gcccgatcac	acagttttgg	tttttaaata	accaaattgg	tcaaaaatct	tcctcaaaga	

caaaaacaga tgaaggtaaa atgccaattg gttaaattta aacagagact tcactttgtt 300
cttttcaggt tcaataataa acaattctag tgattagcat g 341

<210> 134
<211> 442
<212> DNA
<213> Homo sapiens

<400> 134
gagtaaacga tcccaattgc agtatatctg nggntcatct ggcttcttct cacaccacct 60
ctgttgacat gggaggcctg ccggccacac atccaggaag tatgaaatca gcgggggttc 120
tccccttctt gctccaggga agcctgagag ggactctgca gattgcattt ggaatccatc 180
tgccaggagg gggtaagaag aagcagagtg tcaccgggta agagtcgaca gttttgaaga 240
ctcgtagctg cgaatctttc aggaataat ccagaacagt ctctcgctg gacaggaaa 300
gaaacctatc ctagagaggc gaatcctctg tctggacc ctgccccana aaatgggtca 360
ggggagggga ttntttggg gngtttcnac ctgctgcttg cagggtctcg gttgccaaga 420
gtttcccaa tacctaaacc cc 442

<210> 135
<211> 434
<212> DNA
<213> Homo sapiens

<400> 135
tctccatgct ctggatagag gaggttcaca agccagggcc tgaagattaa cagagctttg 60
aagccaaaag gtgaccctg gaccatggac ttcgcacctc ctttcttaag ggctttaaaa 120
tagaaaagaa caggagctag aagatgaggc agaagtcgag gacttctgtt tttctggaag 180
gtcctcttga gccaaacaagg ccagggtctgt tctggatttc agagcacaaa gaggtcctg 240
gagccagcca tgggtctctg aggtttttac caacttgaaa gcagcctttc tccagggcag 300
aaacgaagca tctcccagc gctcgccatc ctcagctgnt ctttacaaca agaactttac 360
aaggatgccc ggatgaaggc ccaananacc cgcgttcttg gcaagccact tttaccacac 420
cgactggatc cccc 434

<210> 136
<211> 433
<212> DNA
<213> Homo sapiens

<400> 136
gtacctaaagg cagtaaacc ccaactccct ggaagggcc actgggcgct cacttcgctc 60
cagagcctcg cctgggttcc gcttcgggat ccggtcacc aaccagctc tccagttgct 120
gctgtttctc gtgagactgt cagagtgaag ggggtccaaag ctccgacttc cagcctcaga 180
aatcccaact caggcaggat cagcgaagcg tccctcgag tggctggagg gagagccagg 240
cggggcccag gctgccactt atcagggtg taaatgccac cctgaggccc acgctgcca 300
acactgctcc ccacaagact aagtcttgca gcctcagccc aaaaagaacc gggcctaacc 360
ccaaaacgga nggtcatgtt caagccacac cccagtgaac cctggcgacc caccacacag 420
tgccctgccc tcc 433

<210> 137
<211> 443
<212> DNA
<213> Homo sapiens

<400> 137
gactagaact attgccactg aggggcaggt gggaagttca gccaaactcg aaccggagg 60
ccccacctta cctccctttg tgaagagccc agagcctttg tccaaagctg catcacttcc 120
caccagccc ttctgagcc aactccccga tgtctccaga agaacacagt cggcatcatc 180
gtgataacat cagggaact cctatttcca gcagtttctc cttcagctgc aaaaatgtgc 240
agcagtagac agggcggtgg tttttgaagt ctctgcagga ggtagagtta ttttctcagc 300
accacatctg agcgcattct ctaagggtgg ccgactgtgt gggaactgca agagcttaac 360
ccgggatgca agccctcca tccccacc tgtccactac caccacgcct ggatccgaca 420
ggcagggcag gaccccatgc ccc 443

<210> 138
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 138
 gctctgggga gctcctgcat tannnctan ctgagtatca tcntctgcc atcaagaatg 60
 taagtatgaa gaatgttccg acactgctcc aggactgtct ttcaagccac tgacaaccat 120
 cctgcaaatt ttgatactgg tgccgttttg gtgtccctag aggatctaaa tgaagatgtg 180
 aaaacaacaa ctaagaaaat attttaaatg gcaattactc aacacgagaa gttaaaacaa 240
 tgtccacact gagactgaaa tgacagcaac agaaacagca agtcagagcc atgcctgtac 300
 aatgacaact agatcaaaac tgccacctgg ccaaaagcaa tactcagatg ctattaactg 360
 taagacagtt aatgggtatgt tatgagggtga aaaaaaaaaa tcctt 405

<210> 139
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 139
 ccenttttgat cccacacctac aactgggcat cgctaacaac ccatgtgagg tacctaggaa 60
 gaatgagaag cttccagcaa ggcagctgct tccagcagca agctcctgca tagccccacag 120
 gccattccag ctcaatgctg gagaagaatc ttccccctaa cagcactgcc cagcactacc 180
 caactaaggc ttctctgggt aaactgcccc aggatgcccc aagaacttgt ttctaaagga 240
 agggaaacag atgccaaagac ttcttgtgct ttctccaggg ggctcagagc aggcctgtat 300
 cactaccctg gatgcacaaa gtatctatca aattcccaca aggtanaaaag gggtgccagg 360
 aatgggaaga aacttcaata ttccaagtca ccaatcacag aagataactg gcaaaacagt 420
 tctactaagc aagcacagag ccatttgc 448

<210> 140
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 140
 aactgaggtg gtggtggtca agagcaaggt cgaggctcac ctgtgccccat ttggttccgt 60
 acattgctca ctagaggcat catcgacaga gtatgaatca gctccccaat tagcctgacc 120
 gtaatcacct gtgttgcttg attattatac aaattccccg acctcatacc gacctactga 180
 atcgaaatct ctaggagtag attctgggaa tctgtatcgc tggtaaagct cccaggtgat 240
 tcctataatc tggcaatgtg ggagacacga gcattaaggg aaccagcaa caggctccat 300
 cctctgccta acatcagcaa cctcagcaga gacttggtcc cagggaccct tggtccntta 360
 tgtaccccaa gacactgtcc ctaaatggng cacaaaagca agactcaggc ctgtctcaca 420
 cactggcaaa gctgctgccc cccagctcaa accagctc 458

<210> 141
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 141
 aagcttgtga gacctcaatg agtcatgaag aatcctaatt tcaaatacaa agaataccaaa 60
 gtgatgataa caaaaagcaa taattgatat ctgaacaaag attcttgggc agccgagccc 120
 ctcttgaatt cctcagccta ccatcatgat caacacctcc catgttccgt ccatgaatga 180
 ccgcactgac agcactggag agatttaatg ggtcaccaat tgaggcagtg aaggcactca 240
 tggcactcag agctggaatg gggctgatct gagttgtact gttgactgca gtggtgatga 300
 caacctgeat tcctttgctg gctgcacga caactgcttt gtnaatgggc attntaccgg 360
 aagcatcacc tggggccacc cacaacgagg ccatncttca cctgttgacc aagagatggg 420
 tcaatcctcg gttgcaactc acaaggtgtt c 451

<210> 142
 <211> 450
 <212> DNA

<213> Homo sapiens

<400> 142
atcccttctg gagctgggtcc taattgcttt tcacaggagg gatgcaaact ggaaagtcc 60
tacctattca gcgaaggcac tccaagtcct gggctctttt ctccctcggg gcaaagatga 120
gacttctctt ctgtagagat cacagggtgca tctgtacagg ttggagtgtt cccccaaccc 180
tggaccctta ggagcggccg tgatttgtga cacaaggccc cacccggtga tctactcttc 240
acacagccgt ggagagccaa gaactgggag ggaggaggaa atttgagac agagacacac 300
agggagaacg ccagtgtggag gtgaagataa agaacacaaac ggtgcttntt acaaccaag 360
gaatgccaaag gacctccagc aaaccaccaa gaagctcagg gggaggcaca gaacgaattc 420
tttctcacag acctcagaag gaaccaacca 450

<210> 143

<211> 452

<212> DNA

<213> Homo sapiens

<400> 143
tcagagttta caccttaactg tacggctgac cacctgaatc ccaatctcac gaaacaccca 60
caacccttg gcaattccctg ggcactaccc agcaaagccc tatctttgca tcggtctcag 120
aaggagtctc ccagatgctg caccagctgc ccagcgtgc tggaggaaat ctccaccgct 180
gcagaaaggc catccctcca ctccctggac agccctctcc acgtcaccca cctgggtcct 240
ctctactcc ctttgggtgcc tgggtctttcc cagcagctgc ctacccccaa ctccctgcta 300
ttcaagccct gnaggcacct tgactcctaa atgaatgaac ttaactgctt gccctgccc 360
cttattgatc tgccagggtt tccacccttn catctnttca gggcctgctt ttgcagcaca 420
agccaggctg ccatacctc atgttccaat ta 452

<210> 144

<211> 258

<212> DNA

<213> Homo sapiens

<400> 144
ctgtcctgag agcacgtctc tacatctcta cctgcattct ggaatcaagg ggaaaaggcc 60
aaaacggaca agaacactag aatcagcccg tgtcccaacc ctttgactac aagggaactt 120
tccgcctat ctgtgggtggg gggatatcatg aaaattatgc acaaacctt ttttttttta 180
anctcatcan ctntngttag cattagggna tttnatntgg ggcccaggag catntttttt 240
ccaanggggc cctgaaaa 258

<210> 145

<211> 445

<212> DNA

<213> Homo sapiens

<400> 145
gcactcattc tctttcctgt caccctgtga agagggtgct tccgccatga ctgtgctgaa 60
cgtgtcctcc aagggtttca aggttatcgt atgccctgaa attgggcaag gagctttaag 120
agggaaactt gagtttgcca gagaaaactc aagatgtttc tacatgaaga aaatggtttc 180
agacatttga cttctttaat ttttgcatac tctttgtgat ggttgtagc aaagacctaa 240
agtggttgta tggctatttg caaaggctga gtgtgacttg atattggctc aacttgaaaa 300
ctttgatatt tgatgnttgn attcaaaatt ggaaacaaag gnggttaaaa agggnggata 360
tatgaattat gggggggcat ataanacttt gcagaactta cctgcncctt atatattttc 420
tgccaaaata gntgttggtt tgatg 445

<210> 146

<211> 437

<212> DNA

<213> Homo sapiens

<400> 146
gtttgcctgt ttcctctggt tccagtccaa gcatttgtgc tacccttcga gtctttacaa 60
attgccctga aataatatgt gctgtgcctg cctctgtaca gtccagctca cctttgagac 120

atttcgttgt	gtttgttcca	acagcgggtca	atttgttgt	atttacccca	gaaatcactg	180
ctaaccaccag	cataccagcc	gccctttctc	gtgagcttgt	gagtggttta	cggagcagaa	240
aaagagttiaa	tcgatggata	tgaattaaac	acaggaaacc	agcactagag	gaacctcaga	300
ctccaggcct	aaaaccactt	gtgactggag	tgacgttaat	cacaaganaa	gggagcctcc	360
atggtaacag	gatgctgaaa	cctgacacat	acaaggnact	atgcactttt	caaagcactt	420
acatttgatc	actcttg					437

<210> 147
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 147						60
gcttcagttt	aaaaggactg	cctgtcctag	ctgggatttg	agaattgaga	gaaaggcatg	120
tgatcctccc	gggaccaga	gagatcagca	gaccagaagg	cctacatgta	cactggaaaag	180
cccccaacc	aggaatccct	gtacgacttg	aggcattatc	tactgtgca	tggctgaagc	240
ggtagatgcc	atcattaccc	tcatttcaca	cctgcagaaa	ctgaggtata	gaaacattaa	300
ctggtctagt	cacgagggat	tctgtgatgc	ctgagacata	tgacctgccc	tccaagacca	360
taagtgcag	accaagaatt	tgatcccatg	tcttgnggn	cccacaagnc	tggggccttt	420
accattanag	caggggtttc	ctctgggggt	tctctgttc	ccaggggaca	tttggaaca	453
tctggaaaca	ttttcgttg	tcacaaatga	gct			

<210> 148
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 148						60
ctgaagagca	ttgaccaagt	tattatcttc	aactctctca	aaggggtgaa	gagagaaaag	120
caactctgag	tcaactggct	ggnttttcat	ccctttctct	tcttcagttg	tgggctggag	180
agagatgtaa	ttccaggaca	ttggccagcc	ttttgttatg	tggatacgct	ttacacaact	240
acagtttatc	catcagaatg	aaatacagac	aaaagctgag	gaaatcagtc	ttcttaatatg	300
atagaaagtg	atcctttctg	cctccaaata	aaactgaatt	ataacattct	tcgtatttct	360
ctgggtacac	atctggttta	aaaattagaa	gttaaatttt	aaaagtaggc	agaaggtttg	420
gttttttagaa	gaaaagacat	tttaactgta	atagnggatc	attattttta	tgcttataaa	451
gtccaatcaa	agataaatgt	caaaccataa	c			

<210> 149
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 149						60
cnaactgaga	aaagcaaaaag	atatttgcca	atgaacaata	acctggatgc	tcaaaggatg	120
ataaccctga	ggttgaggga	taccaagtac	cttggtccaca	attcagcaac	aatgggacag	180
gtgtgataca	aacctctttt	tccatcttgt	tctctttctg	cttgaccatt	gcaccattga	240
gagaagtgaa	acttgggctg	agtctacaag	gggcacccaa	aataaccatg	gtgtgtttat	300
gttcatttaa	aatcataaaa	tttgtgtagg	aaataaaaaa	aaaaggccng	cgaggccnat	351
tcagcttgga	cttaaccagg	ctgaacttgn	tnaaaagggg	gggcctccca	a	

<210> 150
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 150						60
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agtggacttt	tggccacgtg	gatgaggaat	tgaagcagtc	agttctgac	tagagatgga	180
aggcgctgc	tgaggacagc	agggctgctt	ggcaccctgg	gtccctgaat	ggctctgtgg	240
agcactgct	gatggcctac	cctggactgt	tgcttgagac	agaaataaac	ttttatcttg	244
ttcc						

<210> 151
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 151
 gttttcaagc aaantggcng taattggaag aaggnaaaac gcccagggtg ccttaattta 60
 gggnccggtg ctccnaaagg tnatcggtc cccgggtttc ntcaacttgt ngaatggatg 120
 gaaaagcaat gngtttacca tttgggcgga aattttgaaa aatcattgga tggaccacaa 180
 gaagcttggg ggaaaaaatt tgtttgttgg aaacctcaca agggcaaggg ctaaaaacaa 240
 aggttgtggg ggggggtggga tcaagcccca agaattttga ccgtngccaa acctcaaaaa 300
 gaccttggga aaaaaaatgg gccaagaaat aaaatcttgc tttccatccc cgcccaagg 360
 tttgggtttt caatttggtt cttggacca cttcaagct tgggcanttc attnngggacc 420
 canttgnaaa gaaaagccan ggaaccgaaa aaaacccccc ccnngggang ggggaaaaaa 480
 atcctnnggg gaatttcttt tttttnttaa gggggatggg taaantacca ttattatttt 540
 taccnaaaat aaaaaaatgg ccctcatggc aca 573

<210> 152
 <211> 845
 <212> DNA
 <213> Homo sapiens

<400> 152
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 cttggccttt tattgaagct tggtaanac ttcnaccant ggaanggggt cttggcaagc 120
 tttcaacttc ttggaagcc caggcggaag aacccacaaa aacccacccc gggggangaa 180
 atgaaacaag ctggcaagga acgcccggg ccttttaaag atgcctggta aaccacttca 240
 cccaaggaaa gggccccgca agctttcact tccttaaaaag cccaagccga agaaccaagg 300
 gaaaccccc acccaagaaa gggaaaaaaa aactccccga acaacatctt gaaaccatca 360
 agaaaggaaa caaacctcc cggaacacc gccttgcctt tttgaagaaa cttgtgaaca 420
 cttcaccccc tgaaggggtc ccgcccgtt tcatttccct gaaagtcaag tggaagaacc 480
 aaaaganacc cacccaaatt cccgggacat tgtttccttc actttccttt taataagctt 540
 aatttaaaat ggtgaacttt ttctcggagg ggttgggctt tttggaccat tnccttttggg 600
 gaaaacaagc acttctttaa tcaaatgggt cacccttnc ccttgccttg ggggttttgn 660
 ttatttaanc cactttattt gggccatctt cttggggcca naagaatttt attaaaccnc 720
 caatttaaaa tantccatt ttggcttacc caagccttcc ctttcattat taacccccctt 780
 tgccccaatt aangcaaggg nccccttata aaaccaaatt nnggggcttg nggaggccaa 840
 aaaaa 845

<210> 153
 <211> 582
 <212> DNA
 <213> Homo sapiens

<400> 153
 gtgcctgtct gaaaaccagt tcctctatga ctgtgatctc caagtgatca aagtcttgtc 60
 ctggaagcca gactagtgt atgcaccttg taccttgctc ctcaaggcac caacaaatag 120
 gaatccagag caactttctt agctggagt gcttctatgt ttctgactgg actttcacgg 180
 atacaaacag tggggctctt tgcaaaacac tcttctaagc tttcagaagc aggtcataaa 240
 gccgaaaagg acatttctgc ctttctctga agcagggtcat aagtccctca ttagagaagt 300
 atcctcccta tacctgaaga aaaggaacat cttatctat gaagacacag gaactcagag 360
 aagaatctga acaaacaggc cttgcaaaat gccctccagc ttectgccat tagatcatac 420
 ctcccttttc cggccatact tctccataac tatccacttc ttcacagat cttagcataaa 480
 aacccatctg gtttactggn tggcttgggt cttcatttnc ttatgaangc tccgcatacg 540
 taaaaacnta cgtaaaaaa aatggggatg cttttctttg gt 582

<210> 154
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 154

atgcatcagc	agaacctacc	acacggcacc	tactgcgggc	ttcagttttg	ctgtagaacc	60
gagaaacatc	acgttagatg	cttttagcaac	aacaatgtat	atgttgcata	gaagaaaagt	120
gtcccagaag	aacagccagc	tgctctttac	atgaaattgt	ggcactgcct	gtaagaagta	180
tatccaatga	gaacttgctc	tcaccatgta	atacttttaa	tgggtgagcc	atttcaacac	240
tttacatact	gccgagtaag	tttctacaga	actttctcat	tgtactcagc	gctgtctgtg	300
cagttaattt	aggcatcaga	aaactcagtt	gttaattttc	tgacttgctt	ctggactctt	360
aaatgctatt	gctccaatca	taacacgtcg	gaacacttac	gcagatttca	acaataatat	420
ccacagctgg	gaataaatca	aagcagggtt	atcactggat	aagtgcattt	ggaatatggg	480
taccaagaca	acatgaagca	aaggacagat	ttcactttag	aagattaaga	cagagccctg	540
ggggggaaaa	aaaagaggta	atcccaacaa	agtctatgca	accnttaaaa	aatattattc	600
agagcagaaa	tgcaaatg	gcctttg				627

<210> 155
 <211> 598
 <212> DNA
 <213> Homo sapiens

<400> 155						60
caaaactgaa	aaactggntg	accttncgct	tngnntncaa	caaaccaaga	ctagctttga	120
ctatgacaat	nggtatctaa	ngaatgccag	acaggatgga	tgaagaccag	gacacaactc	180
actccaccaa	actgtgatgt	tacgtcattt	accttggctc	ccacccactt	tgcctttgaa	240
tgaagacgtg	tccccagcnn	ttgganaacg	agaaggaaac	acgccaaatt	aaggtcnnat	300
ttacatcaac	agagaatata	gaggctcaag	agaggaattc	acttaactta	taggaaaacg	360
aagtcataatt	ttggcacatc	gagtttgtag	tctttgagaa	atgaaaatcc	tcancaaaaa	420
gcttttgtct	gaccagctgt	gaggtaagaa	tgtgcaagaa	gtcaaagcaa	gcgaggaggc	480
ggagccggta	ctgtcctgga	aagcaaaaacc	cagaaagggtg	gcgaatctgc	tccaaagctg	540
cctcttttct	gctcctaagg	aagatgcntt	ctcangatac	agggattttg	tgtatgaaaa	598
aaaaatggcc	atagctgctt	acagaanaga	atgggtggna	atgccaat	ttgactat	

<210> 156
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 156						60
aacctcaggc	caagtgttct	tgacagctca	tccacagact	cccactggta	aagcagcatg	120
aggatggctt	ctgttatattt	atttcagaat	tttttctgc	agtggcatgc	cagtaccagc	180
tgaggatcat	gtatgcaata	tttgcttct	ttcatcttct	acctaggatg	gctttaattc	240
tcttcagga	gaatttat	tagtttttcc	cagtaagaga	atccacttct	cttgcccata	284
ttcataaatt	atcattaaaa	attaaacttg	gtacaataaa	tatt		

<210> 157
 <211> 759
 <212> DNA
 <213> Homo sapiens

<400> 157						60
ggctaccctc	gtgntganat	gaatnaactg	gcncttgng	gccgaaaagc	gaggngccnc	120
tttgttttgg	gagggncccg	taccccgcg	gaaacccttt	tttgcccgaa	ccaagcccaa	180
gcggaatggg	ttggtcttcg	gcctggccaa	ncnaagcccc	cccaagangg	ggccaaagct	240
tcttggtgga	aactaagtc	caccttggtg	cggaaggcc	cgggggtcaa	ncccaaaagt	300
nccccggnc	nggccaaagca	atcggtcatc	gggggccccta	taagcnggga	aaagaaagaa	360
aaagccacaa	gncaaagtat	cttggtctga	aaaaaatggg	gggnntant	aaacgggaag	420
tcttcgcccc	tgacaccaag	gcttgggaag	tgtgccaaagt	ggatgaagaa	tctcagctca	480
cttgcaaacc	ttcacctcct	tgggtttcaa	aagtggattt	ctttcttggc	ttcaaccttt	540
tcccaagtaa	gcttgggaat	tacaagggcc	ccggnccacc	atgcccaagt	attttttggt	600
gggccaagaa	ggggaaggaa	aanggaagg	ngggggtacc	ttggaaaacg	aacaagcttc	660
ttttccctt	ggggaacttg	gnaagcaatt	nccgaagc	caacaagtcc	aaccccgcc	720
aagcctttt	ggtttccttg	gcacaagtct	tggnctntt	naaagaaacc	aacnaacttc	759
cattatttt	attggacgaa	tnaaaaaat	ttgggtagg			

<210> 158

<211> 501
 <212> DNA
 <213> Homo sapiens

<400> 158
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 cntaagggcc ntntngncnn caancccttg acnaaaactta anggagtccc ntcgaaaccg 120
 gggccaccac ctttcttcac cttttgcaag gcaaggaagg cccggaagg ntaagccctc 180
 aagcgtcaac gaagttcaaa agancctggg ttaccagca agtttgcccc atctgctcaa 240
 gggatgtggg ctttcttctt gatgaagtaa gttgaaagt cttgggatgt gaaatcaagg 300
 aactcggagc tcaaagtcca atgaagtacc ttggaaaatt ggattgggga agctggccca 360
 aggaaaatca ggaaagaaaa naagtcctga agattcaagg aagaaagtaa aagcccgcc 420
 ggcttganaa tgggggtggg ccanggccaa accttgatca agggcccag caaaaccg 480
 actctttcca aataaaagct t 501

<210> 159
 <211> 736
 <212> DNA
 <213> Homo sapiens

<400> 159
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 cannnngna aaatttggag ctgggatttc attgcccatt ggcaagatgg ggaananggt 120
 tancctttgg cttananaca aggangggaa aaacccaann ctttnaccan aaaagaaanc 180
 ttgganattc tttgggggttc ttggaacang aaccggtttt acctgggcat ttttttaac 240
 aaaaacnacc ctttaacttg gcttatttaa cccggcctgg cttcaatcaa cccacccttg 300
 gggccctggc ccccaagtgg gccaatantg cccttcaccc aacctattgg gcanttaagc 360
 ccacaaggcc caaagaataa acttataata tcaanaaatg gaantaagaa aagaaaaatg 420
 tggttcactt gggaaaaact tggcttgggt ggaagccctt cccaatgggg gaagcttgaa 480
 ggagcttggt gtctcttgca aggccatttg ggggaacttg ggcccacaaa gccaaaagaa 540
 gtcaagcanc catggaaaag cccnnggagc ttgtaaccgg tgtgcaacca aggccgcccc 600
 attccaaaca agcatggggg aaaccaacaa gtnggncgcc aaatcatttt nctcaattta 660
 ttngggcnaa aaaaggnggc tatttttttc acccttgggt aaggtggtng cntttttgga 720
 gaaacttccc aaatta 736

<210> 160
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 160
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 agtttggaca gaagatctga tgcataagac agtaaaggac tactgaatgt tccatgatag 180
 atatgcttgt tcttttgcct gcatgccctt gaataaagac attttgatct ccaggaccaa 240
 cctgagaaac atataattta atctagtttt gaaagaagag cctgctaca caaatactgg 300
 ctcaaatgt taacagatat caactgaaat atcaaagggc tttcatattt cattaaattg 360
 actatcctat gtgtttgata tttccattta attgaatatt tcttaactca atgaaaaatg 420
 tatgagcctg ctgtgataaa tcccgtgtcg catatggg 458

<210> 161
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 161
 cagaaattga gaatcatttc acttttgggg gaacgggaag ctgggtgtgn accaccctta 60
 tgtgnacctt cctgtccttc agctacatcn gatgaacctt gggcagtga ttatctaagt 120
 cccatccaag cttccagaaa gaactgcagc cccagctgac agcttgactg caacctcatg 180
 aatgtttctg agctaggacc acccagttgc ttctgaattc ctcaccctca gaaaactatg 240
 aatacaataa atgctgatta tttt 264

<210> 162
 <211> 882
 <212> DNA
 <213> Homo sapiens

<400> 162
 agtcaganac tngaagccca tactttccca attgccttcc aagcttggtt gcaccgggan 60
 gggtttcaaca atcantatatt ttccaagaaa nggcttcctt gggaaaagan ngtggaaata 120
 ttggtggtcc ccaatccaag aaaanccttg aatggggggg anttggtgaa ctttgggctt 180
 gcttggtccat tcctttcaat ggtaagccc caananaaan atctggtggt caagccccgc 240
 cacaaccat tacttggttt aaagccaagt ggggaatgaa aaagtggcca aagccttgcc 300
 caaagaaaaa aatgggtaaa agggaaaaat gtttgccccc aagggaaga aaacacccat 360
 gggcaaagat nggaaacca gtaaaccagg gggccacaat caaggggggg anaacaccga 420
 aaacattacc gggccanta aaaacttcct ttaattaga ananngtcta ccaagattaa 480
 aatctancag atgaacanat tcctcaaagt tgggaacttt gggccattg aatttgggnt 540
 tgggtcccttg ccattactng atggaaaact actggatggt ccaagcttgg gtctgaaang 600
 gaccccttac ccagaaagcc ttaaattcan tcaaaagaaa atggcaaatt tcccattatn 660
 cctaaatgga attcaaatct tccttttacc ccttggaacc caatcaagn ggggncccaa 720
 aaatTTTTTcc caacccccct ttggccttcc ccaaaaaaac ccccaacccc caanaaacn 780
 tcttttaaaa aaaattaaag aaatctttcc tctcttaact ttccttggaac ttcaancn 840
 cccattgtna atccatttaa aacctcntnt ttgcttgga aa 882

<210> 163
 <211> 828
 <212> DNA
 <213> Homo sapiens

<400> 163
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 aagtggctta tcttgaaacc ttgtgggtcc ttggggaagc ccaggggtga accctgaata 120
 atgaacatct aaaaagaaag cttttctggg aacttcttga aacaaagaaa tttcgggtggg 180
 ccttgccaaa agctttgccc aatttgccac ttttttcaaa atgccctttt gggaatgaac 240
 ccaagccact tttaaactct gaaaaccttg caaccaagaa ctaagcccaa ccacctgggc 300
 ccatgaaaac tttgccccct ttcacttgga tctgggaact tcaaccttct tggancccta 360
 acggcttttt aaagccaaag ccacttaact tggcactttt aacaagaaat taacccaac 420
 ttgggaatcc cttgggaacc caacaagaaa ttccttttca aggaatccct ttctttggct 480
 ggccaagaat ggaaagccaa aagggaat ttttcccc ttcaaagttt ttctaaagt 540
 aattttcaaa aagccaaaang ngnggggtgg aaaatttccc aagtaacca gaaaaccaag 600
 aagggttggc ccaatagaa agtaantttt ttaatctaata aacntcccc tttgggtacc 660
 ctagaaaaaa ngcttatgtg agaactaatg aagctccacc agaaccang gcctttcgcc 720
 ancaaacct ccaaatcaa taaattggga ccatggtttt aaatggatta cctggggaaa 780
 tcontggata ggccctnnna aaaaggggga nangctaatt aaaacaaa 828

<210> 164
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 164
 tggagaaaaat gggattggga aacagaaggg agaagaaact gggcntttac cataagaagg 60
 ttgcanaaca cccttttaaa acctaacctt ttaaaatggc agtgggaaag cnttcaacat 120
 ggaggcctcg tetaatttaa aacaaaccac acagacncac ttggcccaaa agcagcgact 180
 ggcctctgaa gannaaaagg tggggccctg caagtactgg gctgggaacc acctccacat 240
 ctgaaagaat gctgtttgcc tgtatttgct tcccaacgtc ctctcttccc ttgcctggtt 300
 gcctgttggg cctaactatg agctctgccc acagtaagt tctgtactat ggccactagc 360
 ccataccaag gcatggcctt tgcaagtccc caacatacag ctccccgacct cacaagcaag 420
 nccatctcta ntgctggna gaaagtaaaa gtacacacng ggcggggcaa aaagtccctgc 480
 tcattccaan gnancaacgc acctnaaca agcttttccc aaaangcaac tcaaccactc 540
 tttagaattt ttttttttt tnaaaaaaaa ccgggnttaa ggaacttggc aaaaaaaanc 600
 ccccnagntg gaaaanccct ggggaaaaan tttctgggnc ccccccccg ggtgaactt 660

<210> 165

<211> 643
 <212> DNA
 <213> Homo sapiens

<400> 165
 cagaaaactga ggtatatattg ttcttatatg aatggacaga agaaacnatg gaaattggag 60
 ggaagggaag angaacnct anangggngc ntantttngc nccccaggtg gnccttcaat 120
 taaaagaacc tttggcctcc aggggttcaan gtggattctt tttgcttcaa gccttcccga 180
 gtaagctggg gaactaacag ggtgggtcaag gccttcttga cccaagcct aaagcccatc 240
 attatcccc tggtggatct tgcacctaac ccatcccaga atggccctga aagtaagtga 300
 aagantcccc caaaaagaaa gtgaaaataa gccttaactg gatggcattc ccaccattgn 360
 gaatttggtt ctgccttcac ccttaactgg atcaatgtac tttgaaaatc tccccgcacc 420
 ctttaaaaaa ngttctttgt aattctcccc ancctttgaa aaatgtactt tgngaagaat 480
 ccanccttct ggccgcaaaa cattgctctt aacttccacc gcctatncca aaacctataa 540
 gaactaatgg ataatccacc accctttgct tggacttctt tttcgggact canccccgnc 600
 tгнаaccccc ggtgaataaa aacaagnccc cttgtgtccc ccc 643

<210> 166
 <211> 629
 <212> DNA
 <213> Homo sapiens

<400> 166
 tcaganactn ggagngaaga acaagctttc ccaagggctt ggaaaagaag gggggaagtg 60
 ccgggaacca ntgccttccn ccantaacca cttggcccac ttcttggtgg aaccttcttg 120
 gcaagcaaaa aaccttgga aacccccaaa gaaggcaagc tttcttcaaa aagtaaaaaa 180
 gtgggaaatg gaaagtttcc ctgggtggaa ccctggaaat tccccatggg aagggaaaaa 240
 gatngganaa aagggancat ttattgcaa gggaagantg ggcatctcgt ggtccccttg 300
 ggttgaaacc caanattcca ttaagggaaa gaacgggtgc caagtgttg aagggtggg 360
 acccttggga cccttgggaa taaaaaatgg ggtgtgttta aacccaaaagt aattgtttg 420
 aagtaagggt tgggtgggga agggaaggca ccgactaaga tgcaaggggg tctaagcttg 480
 aagttggaca aagaagctaa ccaccagggt tgttgggacc aaggggacagg ggggggaccc 540
 tttaaagccg aaaagaacac cctgcccag atggtggtct ttggttcctt ttgacctggt 600
 ggggaaggg cccctttggt ggggggtggg 629

<210> 167
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 167
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 agcaaagtct tctagattaa gcgggtcgctc caataaagtt tcctgattct gtccagaaat 120
 cctcaactcc gacaataaga agtgggttga ggggcagttt gaatacataa tcaaaaagca 180
 tataattgaa gattgaactt gagctatagc ttcattgtatt gtctctgcgt tgttctattt 240
 taatagttgc atatggagac aataaagcta catgac 276

<210> 168
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 168
 agacgtcttg ggagcctacc tgcattaagt ccanatactg gagagaaatt caagaacctt 60
 ggaaagctta ccccaacctt tcttaaccat tggcctanta accnatggan cacccttaa 120
 ggaangtggg gcaggaagta acccccggan ggggaaagaa acccctgggn taaccttgga 180
 aatggactan tattggaaaa caacanggtt ggcctttana taacccttc ggantcaact 240
 tcaacttaac nggaaacttc ttntaaataa aaaggtanta atttttttaa agcccaatt 299

<210> 169
 <211> 540
 <212> DNA

<213> Homo sapiens

<400> 169
atttctgtga atagaccaga agcccgacct ttacagtgtg tttgggggtgc agaaaacctt 60
ggctgacata ctcaaggctg aaatgcagtc agcgggaaatg gaaacacttc aactctgccc 120
ctgtggcaag aatgggttcc cttcagacaa tctggccaga ttctttatgg acccaatggg 180
agaaattgga tgcttgata tacctctcag catctttgaa ggggcactga aacttcaatc 240
aaattgggga aagggagccc tgaactttag acctgtttta aatgtgcaga gtggcaactg 300
gcacaaggaa cactttccat ctgtaagaaa gaatacaaaag aacttggaac aagaaaaaag 360
tagatatctc atcagtcagt ggtgctgtat aggcattgcac aaagatggag atgtgagcac 420
cgacaagatg gctggcatct ataaggcagg aagagatacc tcaccagaac cccataatgc 480
tggcctctga cagtaaaatt ctanctgttg nactatgaga aaataaaatt ctgtgggttaa 540

<210> 170

<211> 381

<212> DNA

<213> Homo sapiens

<400> 170
ctgaatgaag acaaacttta gccctctgag actgatggtc tcagaaagta gtcttcagat 60
taccagcttc agaatcagct gatgggttca ctaaaatgca gattcccagg cccagtggag 120
actgaataaa tcttagtttc ccaggcttta caggaaccat ggtgctcagc ttctaaggag 180
gcctcaggaa acttacaatc atggtggaag atgaagacgg agcaggacac agagtccacc 240
ctctctggag aatgtagcca ccaggcacca tcttggaagt gaagactgga cctcatcag 300
acaacaaacc tgccagtgcc ttgaccttgg acttcacttc ccagcttcca gactgtgaga 360
aaataaactt ctgttcttta t 381

<210> 171

<211> 334

<212> DNA

<213> Homo sapiens

<400> 171
ataatgacga ctgcaaaatg gcaggataag gaccgtccaa aaagcctcat tgatgaaagc 60
aatgagaacg ctggcaaaaa tgatcagaat cggctttttc agacctctgg aaattaacca 120
aagatttgca gtgaggaatg aaatttcagt gaaaagcaat atcctagcag ccactggggg 180
ggagaactga agccgagctc ccccaaagcc tcttcccgga gaactgtcat tatctgagct 240
gcctctctgt tccgtggaag actctacttg caagactatc tttgcctgat tgactcggag 300
cttaaccctg aggaacagcc caggggcatt tggt 334

<210> 172

<211> 351

<212> DNA

<213> Homo sapiens

<400> 172
aacagttcta gatctccatc gttataaaaag agtattaccg tgttggtgta ccacaatttc 60
tcaagaaaaa cattagctaa gcccaagctg gatatttgatg gataacatgc tgatgttgta 120
acaaggctgg agcgtggcac atctcacaca tgcagggtgaa cacccaatta ccacgcctat 180
gaactacaaa atcatctaag cagatttttaa attagccagt tgtttcccta ggatcctcca 240
aaggatgatc atacagtttg tttttttctt ggtggaggga tctcatgatg aactaatgaa 300
tcttaacatg aattgtaagc aaataaataa aatgggatgg ttttaagccat t 351

<210> 173

<211> 376

<212> DNA

<213> Homo sapiens

<400> 173
gcatacctca agatcagttg aattggagca cagctggatg gaggcctcag gttaattaac 60
ttccttttgag agcatccaga aaattagcaa ggacatgaga aaccattcac tcaggacgac 120
caatcagcca ggacactccg aaacctatta aatcagattt ttaatcttct aagcctgtag 180

acaactgtgt	gacatcagcc	acatcctcaa	atcttaaggg	aaacacgaat	acaagaatac	240
atgtgtgcaa	ggaatcatgc	ataaaaggat	tgtgccttca	gatcaagtc	aactgttttt	300
atgtgtcatt	aaatgtgaac	ggagatatgg	gtactagtc	caggaatgcc	ataaactagc	360
agtgaatcac	ttcttg					376

<210> 174
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 174						
atatgtattc	tgcaatcatg	accaaacaga	aggactaaat	ctggatcaga	atctgaaatg	60
taaaaaggct	acttgtcaac	cacgccattg	ttttccgttg	gagctagcag	agcagcctcg	120
gctgcacatt	cctgggacgt	gaataatata	ggttgtgatt	acacttcagt	atctcatcca	180
ttaccagccc	tgtgaacact	gaatataacc	taattaggaa	atgcgaagg	ccctttgcta	240
gggatgagtg	ctggggcagc	agagggtccac	atgccttccc	gacacagggg	ttcaccgggt	300
ttcagacaca	ggtttgatc	ctgcagggtc	caaggacaga	ctttactggt	ctagtccaca	360
ttccttgat	aatcaccagt	aagctgagaa	tgtgacacct	tggattccat	cctatgttac	420
actcctcttt	aaatgcattg	caaaggagat	atgccaggac	ttgataagtc	aagtcaattt	480
caaataggta	ttaaagtatt	aatgaagtg	att			513

<210> 175
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 175						
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gccagaaaat	actgcccaac	cagctctcaa	ggcaaagaga	gggtgtacga	gaagctaatac	120
ttcaaataag	aggtggagac	ccagctggca	gctagcatgg	tgcggcgtgt	tggaggcaag	180
aagcagaatc	tcagactggc	aagatgcaag	ggcaggcagc	ccaccacag	ggaaggcgctc	240
gccaatcttg	agcaactcta	gaagagaaac	ctgaacacat	cagaactcaa	actaactgat	300
aatgaactgg	ttttcattac	ttcctgagtg	atcaggagggt	agaattgtct	cttacaaccc	360
aatgtatacc	attctcagtt	gtctatttaa	ggattttcta	gtgagctcca	tggtaaaata	420
tatctacttc	tt					432

<210> 176
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 176						
aggggcagac	ccagggtggga	gtactgcagg	ccacgcccct	cgaagacagc	atccacgtgg	60
tcttccgata	ctagcaagg	gtgcttgga	gccgggtgcct	caaggattgt	tctggaagga	120
tgacatcact	caagggtgtga	ggaccagca	gacagagcac	acgccctggc	tccatgcccc	180
agaggcccat	ctgaggagcg	gacaggcagc	ctttcccacc	agagtcacca	gggtgaggac	240
gtctttgagc	cattccctac	tctgagtcac	aacctcgtag	ctgattaagg	ccacatggga	300
agcttcccat	tccctacat	tcccctgatg	ctctcaggaa	ggacaatttc	gggctgaacc	360
aaatctggat	tattaaagtc	aattttc				387

<210> 177
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 177						
gttgctacaa	taattccagc	tgtgtatacc	tccctgggac	ataatagaaa	tgaacctctg	60
aagcatctta	ctgaagaagg	cccctacgtt	gactgtccag	ctgactgtct	ctaccgact	120
gctgtcccac	acaatatggg	ccaggcgatg	gtattgcctt	tgcaaactaa	atgaagttcc	180
tcaaagtga	gctgggtggc	acttcagagt	taacttttca	aatggccggg	cttataataga	240
ataacctttg	taaaagtaaa	ctatgatcat	ataataagat	acatgtgcat	ttggaacgcc	300
actgcttttg	gaacctgtct	cagtttttat	catcatacaa	ggttaattgt	ctaattgtcaa	360

ttagattttaa tcacaagtgc atttgggtcc taatctggaa caataaaagt ctattaaacg 420

<210> 178
<211> 421
<212> DNA
<213> Homo sapiens

<400> 178
ggcatcttga agcagaccag ccacgttgca agtgcttga ggcacggatg actggtggct 60
gctgttctgg gagacagaat cctatagcat cccagtcct gcagcacaca ggtgggacaa 120
ttccagcttg atgtctcagc cagcgggttc ccacgtcctc cccgcctctc ccaggcagaa 180
gacagagtga cccaggtaac caggaaaaca aggccataaa aaaggaactc ctactaatga 240
aacctcctag attccaagga ggaaaacgta gctctcagac caagtcggtt ttccgcttgg 300
catctgaaaag ggagtcgggg gaattgctaa ttttgaactt tctatacacc cttctctgct 360
ctggatgtgg ccgcctgact cgaattcctt tgcacaataa aatgaggggg aaaaaaatca 420
c 421

<210> 179
<211> 115
<212> DNA
<213> Homo sapiens

<400> 179
aatacgttcc agaggacaag gactgtgttg ttcatacag tattccagaa cttaaaagga 60
actggcacat aattggagct tactaatatt cgtcaaaaa atgaacaaat gaggc 115

<210> 180
<211> 449
<212> DNA
<213> Homo sapiens

<400> 180
ataagagtga gcatttttgg aaatgtgatc aactgacgca aaatggcagc aacactggaa 60
ggaagaatca ggaggatatc ttagaagata accacagaat ctttgcaaga gacacagaag 120
actaccttac acctgggttc cacaggagaa atggctcaaa atatgttatt agttgaacag 180
taggaaaaaat gtctatggtc tcttcagcac catctgtatg tagtctctga gtctccagtt 240
tctcatctat gaaactggga taataatatg caatgagagt tattctgaag atcaaataag 300
atagcatgtg aaagcagttc tagattccag acataagagt aagattaaaa gaaatgttgt 360
tctcaatttt cttgtgtcat tgctgctgcc atctagactt aaacaaatgt tactgtaaga 420
gccaagtaat aaactaacac atctaatacg 449

<210> 181
<211> 506
<212> DNA
<213> Homo sapiens

<400> 181
gtgatttttag aggaataaac acccttagcc gtcagccaac attttacaaa tgaaggccag 60
caagggaag gagctcactg aaggcccatg ctcattaatg aggaagcaaa aacaacagca 120
cacagcctct gttcccaggc ccacgtcctc cgatttctaa gcgctgttcc agtccacaca 180
ggacaagaca tccttttttc ttctagaaca acagctcagc cccacctgaa agaaagagtt 240
cattgatact ttttcaaagg cttcacaact cagctttttt ggagacttca gcaaaataag 300
tcattatctg gccaaactta agaatgaggn ttgctaaaatg tatcagcatt ctgaggntat 360
cagaagactc tgcacacttg catatctcac aaataccgnc aataaataca tagnttcatt 420
tctcattgg ttcacaaaaa aaaaaaggcc ggccggggcc nttancttg gacttaanaa 480
gggtggaatt tnttaaaagg gggggg 506

<210> 182
<211> 510
<212> DNA
<213> Homo sapiens

cctacaaaaa	antccctggg	ccctcaaagg	ccgaatccca	acccccggct	ttcgaacct	300
aacccaaaag	gtggcttggg	ggaatttaac	caagggccgg	nggaagcccc	acccggccgc	360
cccggggccc	aagcctggga	ataagtnnct	ttaagtgaat	caaanatgaa	cctggngggg	420
gcctgggaaa	ccctcaagg	gggaaggggg	gccctnnacc	cttctnnggg	naaaacnnat	480
cctgggggac	ctggacaagg	gggncccttg	gcttccattc	accccaaggc	ctcaaaaagt	540
gaaagggggg	caatgaancc	tccgggctca	acctggcccc	ccttggaacc	tnccctggaa	600
gcctcnaaaa	gggaanccct	cccancctca	agccctcaaa	ggaanaannc	taagggacnt	660
ggaagcnaaa	gganaccaat	tgcccccc				688

<210> 187
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 187						
gtgactgcct	aatgttaaca	aagatctgta	ggaatgatgg	gaagggggcac	tggtacttnt	60
ctcttttecta	atccttcaag	tcataacctga	agatccgcag	tttttctgga	gacaggtgaa	120
gtccagcccc	tgaagacgc	agacagtgc	gagagaagag	cctacgtttt	tatatattttg	180
tcaaggtgat	gtctcaagca	aaatgaagt	gtttgtggct	gaaacaacct	ccacgggaaa	240
gaaaactgga	gtgttcgttc	atccatcaaa	gaacaaacgc	caacgtctga	gccaacgacc	300
ccagctcccc	cagacaaagc	agtgaacaga	ttaaaggatg	ggaggaagga	tacaatcaaa	360
atcgggtggg	gatggctggc	agataaaaaat	atggaacgct	tcac		404

<210> 188
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 188						
gcagaaggcc	ccanaaggnc	cgcaagaact	ccccaanaag	gccngcaatn	ntccgncaa	60
gaagggcccg	gcngaacntc	ccgcaagaag	ggcccgcgaag	aactcccgc	gaaagtccgc	120
cacacangca	aagggaaaga	tgcctccgc	gtccaagccc	ggcttganat	gagcaggccc	180
gangagccaa	tggcgcaaaa	gaagngnccc	ggtntcccgg	atcgggnant	cctcataact	240
ttncctttcn	ttctggacca	aggtaaagcc	cacaagagnt	atggggaaaaa	agngcttggg	300
gggaaaggaa	ancnggtggc	cggaagtcc	ttcttcccaa	ccaagggnc	cactnaattt	360
atngggagga	aacccaaaaa	ggcgtttttt	ccttaaaaaa	cctggaccgg	gggacaaaaa	420
tccgaanngn	aacctggacc	cacttgcagn	accattggga	cctttcccn	taaacctttc	480
aaaatctngg	tgggaagaag	aagggccctc	aagaaggtcn	ntccactccg	cctattntca	540
atztatcaag	gg					552

<210> 189
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 189						
acttgcaact	tatgtttccc	ttttaatcac	aaagctgaag	aatagacaac	tatacgacct	60
atcatgaagc	aggaagaaaa	aaaatcatcg	acatttttga	ccatgcaa	gagcattttt	120
ttttctgcaga	ataaactaag	gctaacaaaa	aagacaaaaa	caactgatca	ttcgtatgaa	180
aacctaatta	tttggtggat	ttttcaaaa	gtgggtcagct	aattatgtgg	tatcatctgg	240
accaatgttt	tctaggcaag	cctagatggg	caacttttga	gagagtttat	aataaagttt	300
gatttgttta	tgcatatc					317

<210> 190
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 190						
tgctgctttt	agaccagtcg	cacaccaggc	cgaagaggtg	agaggggtgag	gtgtttccca	60
caagaacatc	cacatcctca	ggatggatgg	aggagcaagg	acgagaaccc	ccaacccccg	120
agacagtttc	tggtcccttc	cttccaagaa	gccctacaca	tgatatccac	gttgaagccc	180

tcattgcaaca agctactcat tctctcttctc aaaggaagtg ctgagtgtct ggcaagttgg	240
aaagaatgag ggattcttct actgggttac ctggtcagct ccgaggagag ttaaaccagg	300
aaaagtagtt caggctggta tacctccctg tttgtccttg agggcaactt aaaagcacta	360
tttacacaag	370

<210> 191
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 191	
catgccatgt ggacgtgacg cctggagata tgcacccac cttataatca ggaggaagaa	60
tgccacgtgt ggaggatggt gccacaggaa tctggaagag ctcgatcctg gacgacttgc	120
tcaagcagct gcacattcct cctgccacct acttctggat attgtgttag gaaactggca	180
tgagcataca catccattca gaggaggtga aagtggagt actgatgcta gaatccccac	240
cttctgagtc aacggtccag agaacaaggc caaaacagcc acaaatactt ttcaggcttc	300
aggatcaaat tttttattct tgaatgatcc aaacacttta agaaaaataa agtttctaga	360
ggaaatcaac aaaagtgggn nnannnnann nnnaannnnn aaaannnnnn nngggggg	420
ggc	427

<210> 192
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 192	
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tcatagtggg aaaaagctga tgaaaatcct tcacacagag gtgttaagag cttaatgatg	120
aacactcccg acctgagtta taatttcaca agaatttgaa ctttattttt ctgaggagag	180
tcacgtgatt tgtcctgctg gccaatataaa ctactgatgc cagctggcct gaagaactcc	240
atgaagatct gactgactaa agaatgcagt ttccaatcct ggtgatttca tcccccttat	300
cccaagcagt caataacttc tactttccag cctcttgctc tccacgatcc ccttaaagac	360
tctagcccaa aactccccag ggagatggat tgcaggattc ctctgttcgc tcaactcagcc	420
actctgcaat cattaaactc ttttctctgc tgc	453

<210> 193
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 193	
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aaactattca acatntgcac atactctcct agtcactcct aaggggtgtt cataatgaag	120
aaactgaggc cgtgaggact gaggggcaat gctgcagcaa tgtcaagtcc attcgggtga	180
ccacgtgect tccatctcca aagacacagt ctgtgctcct taaatacctc ctgacaaact	240
caatgtgcag aggcaagata gagcaagttt ctgctgcaaa ctcaccacca gtagtggatt	300
ctaagccan ctncctgcca atgattcttt gcagggncac agcttctgtg cctgttcacc	360
tagggctggn tnaccacagg ganggancnt gattggggaa aagcattggc ngtnncagaa	420
tggaanaang gacctcaaaa tttgtcttta ggg	453

<210> 194
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 194	
gcttttggca tctccattca ttccggaaca gccagtcagc cctctctgct gtgtcccaga	60
gcaccaggaa gtgagtaaca gtccatagagt gagacatgga ggatacagcc aagtatcaga	120
ggagtgtctg ctgctgtctg cttctacacg tcaccgtact gggggaatcc tatgtgaagc	180
cgccccatgt cctgtctgcc tggatactca ccattgcagat agctctctgc attcagcagg	240
gtctggctta ggccctctcc tgggggccc agaccctctc gttcttctcc agaccctgca	300
gaattctgga gaggagagga aggtggaaca cacactttct tncgtctttt ctanggtgnt	360

ggggcatctc tcttcttctt ttaactacga acttcacagn ccaaccactt tctctttttt 420
acaagcccct tggggtcctt caagaaccaa agtaaaaaaa agctttaaaa atg 473

<210> 195
<211> 127
<212> DNA
<213> Homo sapiens

<400> 195
ccattgacct ggatggacct aggacacaca ctaaaggaca catctggatt caccaaggag 60
ctttttatat ctcacaaaat agcatgttgc taataagaag aataaaatga aaccaaggta 120
caaaatg 127

<210> 196
<211> 311
<212> DNA
<213> Homo sapiens

<400> 196
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gggtganccg nnnngattgn cccacaancc ccgatggaaa cattcaanag gngaagcct 120
tgctcanaac cccctggcca ggcttaggag ggaaaaanta tgctttccaa ctntggcaag 180
aaattgctgc atccanaggc tgcagaagcc ccgaggagca tgaacatgct ttggaagaat 240
angcgtgccc ttgagtga cactgaacca gacccttaca cacacanctt tcattgggtgg 300
cttttggggg t 311

<210> 197
<211> 497
<212> DNA
<213> Homo sapiens

<400> 197
caactgtgga agtcaaggcc agaaatcact cactatatca tctgatattc ctctgatcgt 60
tataacctatt ctcatgttta aggaaatgag accagttgaa acgtccacat taaaataaga 120
agaaggagag aagggttttct aattgcagtt aatgtcatcg ttaaataaag aatgccataa 180
aggaacgaga tcagcagtgga ccttctgcac agtttccaaa gcctcgccaa cctacctccg 240
tgtcctggtc tgacttatgg cagaaacaga agttcaaaga cctggctgat atgctccgtt 300
aaaaaccctt ccacaacgca gttaacattt tctgntttct gactttcttt ttctaaagag 360
atgcttaaa caaaaaangg ttcttgcccc aaaaatgaca ttaatatctt gtaaatcaag 420
aactaagata atggtttngg ctgctacaga gaccgttacc cttatgcggg tatctnaaag 480
cttttcgatt aaaacac 497

<210> 198
<211> 350
<212> DNA
<213> Homo sapiens

<400> 198
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ggaacagtcc ctgcaactct tcagagaaaa gaaaggggag ctggcccagg cccaagaagt 120
gtccctgggg gccgatgtcg gcaggaatcc ccgcatctcc acatgcggaa ctgagagaag 180
tgcttgagc attcaatcat acagtgactc aaatgtcaca gcatgactat agagaaagaa 240
taatagtggg agcatcccgg ccaattttca acagaagggc tcaggataag gaagcttaag 300
aaaattgccg aagagaatga taatgacaat aataaaaaaa aatagcttcc 350

<210> 199
<211> 275
<212> DNA
<213> Homo sapiens

<400> 199
caggatgaata aggtgggatt tgaaatcagc atggcagtg cagtggaag aaggagagctg 60

aagtttcttg	aggatgaata	taaagctggg	ggagttatca	ttgagcctaa	ctctctgggt	120
tggaaacccat	aaaccctaata	caatatacct	cccaagttaa	caatagaggt	gagtatatct	180
taccttactc	catttccatc	ccaacttccc	cactttgtaa	actttcagaa	ctgacttatg	240
gaggtttata	acagccagat	atcaaaccca	tagac			275

<210> 200
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 200						
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ttgacatgtg	atgcaagcgg	accgtttgtg	taaactgctg	ggagattaac	aacaactgtg	120
agtgggaattg	ctgagtcacg	tggcaaacct	ccagttctgt	tgaacctcag	ggccatcatt	180
ctgttcatgt	cagctcgttg	tagaaccaca	tcgatgaaga	ccaagatggg	aaagatgaaa	240
aattgtagct	aacatttact	gcacatttac	tacaagccaa	gcattgcact	atgaagttaa	300
agtgcattat	tcattaaccc	cttcaataaa	atttgtaatt	ttcacttcag	aagc	354

<210> 201
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 201						
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tctaattaat	ctcagttgcc	ggaatgcctc	taagatttct	acgttatcta	ctgtgaagag	120
caagtaatta	ctgcaaatcc	tgcccttggg	tcaaaacaac	cttgatgaca	tattccttct	180
gaagcacata	tactctttcc	ctaggtatat	aagccttggg	tctgggggct	aacgggtgcag	240
ggatccatca	tctcacagcc	acccaagaca	tggcttttgt	tcaaaaatcc	ctattaaatg	300
tttcattctg						310

<210> 202
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 202						
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atcttcaggg	gaaacgacac	gagtaccctt	tgcttttcct	caacgaactt	cccttctact	120
tagggtttta	gggcatttgt	acaaatgatt	tgcttccttg	gtctgaatct	tggggatggt	180
tatcattttc	gttgctttca	gaaaatagtc	tgcatcttct	tctattacct	ggaccatttt	240
cctggctttt	taaaaaaaaa	ttattattca	aatggaaaag	cggcgagccc	agaatgagcc	300
gacgaattga	gctcttcctt	ctctcgaaca	cgggggcacc	tctaccgct	acagacttga	360
agattttact	cacttccctt	catccccctg	ctcgggtttg	gagggtaggg	gcatgaagtg	420
gntgaatcta	aactggcaga	aaaccc				446

<210> 203
 <211> 88
 <212> DNA
 <213> Homo sapiens

<400> 203						
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tttgctgaag	aggagaagga	aaaaaaaa				88

<210> 204
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 204						
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gagngggctt	gagtangatt	tgctgccagc	taaagcgtga	gatgctattg	catgtgcaag	120
gcaaggcttt	cttcanccgc	atcatcttnc	aaaatagccc	agngagcatg	cctttctcct	180
gaaaaataaa	aaatagttag	tgtttactgc	g			211

<210> 205
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 205							
agttccccc	aa	ggacagaggt	cagggaataa	gagctgagtg	agacctccca	aagcagatca	60
caaagagaag	gggacactgc	accatggagg	tgacacaggc	cagtggccac	ggtgctggac		120
ctggggctga	gaggacccac	atgtatatcc	tgcccgattt	aggtatctta	gactttctgt		180
gcctcacttt	ccttatctgt	gaaatcagca	ttctgatcat	gactaaataa	aaattgctgc		240
cattg							245

<210> 206
 <211> 325
 <212> DNA
 <213> Homo sapiens

<400> 206						
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gctcattctc	tccacttggg	aaggaggcta	caacttacag	tgtcaagatc	ttaccagcgc	120
aggggaagct	gacatccgga	ggaccaactg	aataaaccac	agcacatcca	cgtagcggat	180
gcctctacca	agtggagtga	ggaagagctc	tataccgcta	cagaattgtn	tctgggatat	240
agttacatga	acaaaagcaa	cttgacagacc	gtgtttatag	gatagcacc	tttgtgcaat	300
aatgatatg	aatgcaaaaa	aaaaa				325

<210> 207
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 207						
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aatcaaggga	taatggcatt	tgagggttcc	tcaatgaccg	cccagccaca	tcacaccgga	120
gtggagcccc	aacctgagag	gctcttacc	agagcttcca	gtcggcattt	cagtggatca	180
cttttaaaaa	taaatggtga	tggggtgatg	gaaatgctac	ccccaaaata	cg	232

<210> 208
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 208						
ccttgaatat	gagcatgctg	catgctgcag	cagtatatag	tgatcaaagg	caacaagcca	60
aggatgatgg	aagaacaaga	gagaagcagg	ctggttcttt	gacattggac	agccagagtc	120
ccagccctgg	atggcctggt	ccagacatct	tgtcaagtg			159

<210> 209
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 209						
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tatcagggga	gacctgttgc	ctcacttttg	tcccaatgta	tgacctgttt	ccacagagaa	120
acatgcagga	gaaattgcac	agatagaaga	actgaattaa	caatctccaa	gactgctgag	180
tggttttgat	ctgccttgct	tactttttca	gccgctttat	atgctgaaat	gtttccagtg	240
caaccagaag	tttcaagtgt	aaaattctgt	ctttcctctt	ctgttatattt	aagcttttaa	300
gacaccatac	ataanagcaa	ataaatgac				329

<210> 210
 <211> 133
 <212> DNA
 <213> Homo sapiens

<400> 210
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 tgnnngcagn aaagacagan agcatncacc ctaatacctt agttatgaan actacagaat 120
 cagtagaaga aca 133

<210> 211
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 211
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 actcatggga gaatgcactt tccatattct aatgaactta tcccccttac cctgacccaaa 120
 cgataacccc aatttttctaa ccccttgccc tctccaatcc cctgaaagat ccttgcccag 180
 aacccctcaa tgaaatgaat ttgagtctcg agaattcctc ctgtttcttc attcagtcac 240
 cttgcaatta ttaaacaact tgtctgctgc 270

<210> 212
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 212
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 cttggtcagg ggaggatggt cggccaggac acatgcatgg cccccctgag tctgtcagct 120
 gctggccttg gtgggacttg ctcagggaact cactgctggc cttggggagn acanaactca 180
 nggcnttgtn attccgaaga ncnnnggtctn ncncctgcaa ntgccgttnn cagaatngnn 240
 cccaccccag gaggatcacc catatncaac nccnggagca gntcagcca cncnnaaac 300
 aaggggggaaa cgccaagccc attacattag gacttttccc tgccatcact gggct 355

<210> 213
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 213
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 catacatcca cagccccagt cggctgtatc catgaagagc tgaatggaac aggatgactg 120
 gcagcccacg ccaagggcca agagatgtga aggtagaagc aagaagttag aatgacctga 180
 ggaagaggtc acaagcccag gaatgccagc agccactaaa agctgaaaaa aggcaaggaa 240
 atgagttttc ctctgaagct gccagaagga acaagcccag ccaatgcctt gaccctagcc 300
 cagtaaaatt gatttttgaac ttccaaaaaa aaaaaggncn gngngggccan ttnagntnng 360
 acttaaccag gnngaacttg ttnaaaaggg gggggggc 397

<210> 214
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 214
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 tagtctaagc tcccaaagaa ctggatgcta atccctgtcc tgataactaac tcaccctggg 120
 acattaaaca ggtcaaaaaa c 141

<210> 215
 <211> 96
 <212> DNA

<213> Homo sapiens

<400> 215
ttcctcctcc tgccatgggt tgactgagct gaacaaaccg gaaactttctc taggaaccgg 60
gctatactat acatgtaatt aaaagttaatt tatctt 96

<210> 216

<211> 305

<212> DNA

<213> Homo sapiens

<400> 216
aaagaaaaac tacatggaat gaggaatat accactcctg ccttcaaaat cctcttcgtg 60
aggttttatag aattcctaag aactcaggaa agacatcagc agagagcaat gatcgtcata 120
gccagctcca cacagaatgc acccaccag ctacttgctg aattacaacc tgatgatgga 180
tccaccagaa actaagaatg gaaaggttat aaagaaatca cagcattcat cttctggaag 240
aaaaagacta tttcttagaa agtaaaataa atgaataaaa gcacttaata aggagcataa 300
cgcg 305

<210> 217

<211> 427

<212> DNA

<213> Homo sapiens

<400> 217
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gcagagcaga gggaagagca agctgatgga ggtgactaat cagagggcct gatgggtcaag 120
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ggcccatggc accactgccc tctccctggg ataaaggctc tggggccact tctcaaggct 360
gggncccttt nttaagaagg aaatgntttt tcccaaataa cctnctcttc tctcttttct 420
ttcacc 427

<210> 218

<211> 438

<212> DNA

<213> Homo sapiens

<400> 218
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ccagaattac ctcagtatca tagcgtaggt gctttggaga aaactgactc ctcctagcaa 120
taagtcttca gttgctttta gctttaagca cattctttca gtccctctgat cactgtcatt 180
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ctcgattgct tctggcaaac attgtgcaag tcatgttggg aaaggggact tgaaatgaag 360
cgaagattcc agaaaacaga acaaaccaaa agaaatggtg accactataa ctggcaactg 420
tggagcctgc cctatctt 438

<210> 219

<211> 424

<212> DNA

<213> Homo sapiens

<400> 219
gaacactatg aaaagattgc aaaaccaaatt catgagaagg ttagattcct actgaaatga 60
aagatattca tggatatttg aaactcttat aagcaagaag tccgaaaagt tcaagatact 120
tctgtagaat ggtttaattt aaaaagtggc tgctatcctg gatgggggtta agaagctgct 180
ggtagctctg tctggatctc cttcttcctt gttgttctcc tcccaacaaa taactctcat 240
cttcaagtct accaaaagcg gctgacctta gtagcataac ctctaaacca aactcaactc 300
ttaccttctc cataaagctg ccagaaattg ctctgcccga gagtaattta cctcttacac 360
accactgtta tttcactgtg tgggactgna ttcccaanta aattgagaat gtctaataka 420

tttt

<210> 220
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 220
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 tcaccccgca tgagacgtct ggcaaaataa gaaggctctc gcaaaaccta acaaccaaatt 120
 atgcaaagcc ccaaatgaca accaccacct cctcgaacct cagaggtctg ggggcgtccg 180
 gctggaactg ggggttataaa aaagaaaatg ttacaaaagt ataacaagat gtttgatggg 240
 tggaaaaatg tatccacgag ttacatcccc ccgtttcctt gcaaagcccc gctgggtctt 300
 ctctcctttt ctctcgcc 318

<210> 221
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 221
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 ctgaaactat ccatcagctc tcctggttct caggctcctg gattcaagct ggaagtacac 120
 atcaggtctc ctgggtcctc agcttgatga ctcgagatct tgggaattct cggcctctat 180
 aactgtgtgc cccaattccc tataataaat ctttgtcttt ctctccc 227

<210> 222
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 222
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 tgaagaaaat gctgctctgg ggacactaat tgaactttca tctagcaggt cctgtgccct 120
 acctactcaa gaacaagttc tgtttgatga agaagttaca cagctgcaa gttccctcat 180
 tctactacct atctaccccc aaattcagga atgtctccat atgttgacta tgcngacttt 240
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 agagtctccg atgtggaatt aggcacgttt ctccaaaagc cagcctgcag ccctttggag 360
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 taactctttt gctaataaat gaggnctaaa ttccaaaaat ag 462

<210> 223
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 223
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 tgctattgaa gcaccttaat gacataaaga agaagaaacc aatgaacatt gttatatatt 120
 tcatttttaa ctgatgtaga ctttttgagg aaatctgcat tttgaaccag gtttaactgtg 180
 gaatgccctt ggccaagagg aggggtccat ttgatgattg gatggcctta gaatttattt 240
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 acatatattg gaaactaata agaattgatta actgtagagg gaagtgtcag gcctctgagc 360
 ccaagccaag ccacgcacac ccctgtgacc tgcactatat gcccgatgg nctgaactta 420
 ctnaagaatn cccaaaagaa agnggatttt tgccttgcc ccccc 465

<210> 224
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 224

accattagaa	tgtgacctct	gtgaagacaa	cagaaatgga	ggaggcgatc	catggggcatc	60
ttctgaagct	gttttggtta	actttgattt	ggaagtccctg	gttccagggtt	ctcctgtttc	120
ctgggaccag	ctccagaagt	tcattatttt	cataaataat	aatgaatgc	atactaggga	180
ctgg						184

<210> 225
 <211> 124
 <212> DNA
 <213> Homo sapiens

<400> 225						60
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tngcctttt	accctggaag	aaatactcat	aagccacctt	tggtattttac	ccccaatctt	124
caca						

<210> 226
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 226						60
atgaagatca	ttgagattag	agaagaaaat	gggatctggc	caaggacata	caactaagaa	120
atggcggtgc	cacagatgga	gaaactgaca	ctcagacagg	ccaactgata	tgcccacatc	180
aacgagctaa	aaaaatggca	aggccaggat	ttggccctag	gcctgcttaa	ctctgaagac	240
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acaggcgatt	gcctttttacc	accctcctgc	cagaccacac	tgctgctgtc	cctgctcctg	360
taccccaatt	ttgctgggtt	gaaaaggggtg	aaaggggtac	cccactgctt	gttgtacccc	374
accccaaatt	ttgc					

<210> 227
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 227						60
atgcaatgaa	attaacctct	ccttccaaga	acagcatgca	ggcagctagc	tggaagact	120
cacacttgag	tgaatagcga	cagctcgccc	cttctgcgct	ttgacgctgc	tgtctctact	180
ggccacttgg	tctaccagtc	agttgtgccc	tgtatgtacc	cagccatggc	tggaagact	240
cacaaccaca	agattgccta	tcagtaggaa	atacaggaaa	ttacaggatg	ggtatatgag	300
acatatgtgg	tgatataaaa	gctcaatagt	agtgatataa	gtgtcatatt	cagaaaataa	318
tataaacttt	cttgctat					

<210> 228
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 228						60
gcccagaggg	gactgtggac	ttggtgccag	aaaagaaaat	gaaaagcaaa	agttgaatct	120
ctgcggacca	ttctctggat	gctgaatgtc	ccactattac	atctcgccat	gacatttcat	180
ggccagcagg	ggaggaggcc	cagtcctgaa	agctgaacaa	acgcccggca	cacaggcctg	240
cctgcgcctt	cgtagtctct	ctggacttat	gaataaaaaga	tggaagtttt	gtctctgttg	300
ttccctgggt	accctgtaag	aataacaact	tggtgctttt	tgacatttta	acttactttg	360
aaaaatgacc	aatattaact	ttacatgtct	tgcccttaa	atctggagtg	gggtaaaatg	420
aaagaaacaa	aagccatgta	attangnaga	agataataat	tcaaggtaaa	ctaatagaact	480
gnctgnaccg	actttattaa	aanatggngg	gacatgccat	ccnaactaa	aagnttaaac	502
ctgacttggg	ggaaccttgg	gc				

<210> 229
 <211> 228
 <212> DNA
 <213> Homo sapiens

<400> 229
gagacactnc ggaaggcnca gaagatagaa cacagagggc naggccatgt gaanacagat 60
actgaaattg gagtgatgca gncacanncc aaggaatgcc tggagccacc aaaagntggg 120
agangcanga natagactct cttctatagc ctgtggagct ctggtataac cttgnttttg 180
gatttctgcc ctccagaacc atgacagaat aaagtctctg cttaagcc 228

<210> 230
<211> 395
<212> DNA
<213> Homo sapiens

<400> 230
ctccttctnc aaaaagtggg atccaagttg tctacccttc acaactgaac tggctacatg 60
acttgctttg ttcgaactgg ctgcatgact tgctttgttc aaccaaatgc tgcagaagtg 120
acggtgcaac acttccaaac ttaagaggct ttgcatgctt ccattccctgc tcttgatttt 180
gagccacccc tgtcacacca gtcaataagc tggctagctg aaaaacgtat aagtgagcct 240
gtgccaggcc agccagtgtt agctgacttt tcacctaaact gcagacacat gtgcaaaccc 300
aaccacaaata agccaagcct gaccagctc aacagaacta tcagggtgacc tatagacata 360
cgaacaataa taataaaaca aaacctaagc cactc 395

<210> 231
<211> 178
<212> DNA
<213> Homo sapiens

<400> 231
gtttccaaa ggatccaaaa aactgagagg gaagagattt ggggaagatg tcaacttttcc 60
tcattctgact ttgccttggg gtcagatggg agaatgactc ctggagaaca cttagccttt 120
tccagctttc cccaanaaag gctggccag ggaggcttct ataaaccttc tccctatg 178

<210> 232
<211> 299
<212> DNA
<213> Homo sapiens

<400> 232
ctcaccagag acctcaaatc cttacctgga ggtcaaaaaa cttgctgtag cgccggtaaa 60
tgccctcngt ggagccgntg gaccacgtga cccggatgat gtacacctgc gggagcaaca 120
aaangagatg ggtgttaaca ccagaagggtg gtctcccaat ctctgggacc caggggggagc 180
ncaagactca nagtcanaaa gacgtgggtt tcaaccttag ctctgccaat gactggctgg 240
acaagttgct tgctgtaagc ctcatctccc tctcaataa aatgagtgtg ataaccccc 299

<210> 233
<211> 137
<212> DNA
<213> Homo sapiens

<400> 233
gngaggatgc naaganaaaa ggtggctgnc tgnaaccagg gagggagaan ctttcccagg 60
gaccaatcta gcttgaactt ttgactttgg acttcaacct ccagtattgn aaagaaataa 120
atatgttttc aaaagtc 137

<210> 234
<211> 216
<212> DNA
<213> Homo sapiens

<400> 234
agatatggtc tcaatatgtt caagtctaag actcaaaactc caggactcaa accatcctcc 60
cacctcattc tctcaagtag ctgagactac agggatcgaa agatgaagaa ctcttggtga 120
agtcataaac tccctaatta cttattatta acagtgaata tctgattttc aaagttgttt 180
aatggtcatg caataaagca atgtaagacg actgcc 216

<210> 235
 <211> 281
 <212> DNA
 <213> Homo sapiens

<400> 235
 gtctttggac ccagattgga actataccat tggctctcct gggtttcaag cttgcttgct 60
 gactgcagat cttgggactt ctcagcctcc ataattatgg gtgagaagca ggagctcaga 120
 gaaggtaaaa gcatcaaaaat caccacagca acaaagattt ctcaggaaat tataaatgct 180
 gagaacagtc ttgttttcct tgcgttggca ggtgactcac tgcatagata tgatcatctt 240
 cagagcctca ttataggttt agcaattaca ttttaaaaat t 281

<210> 236
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 236
 cttgctagaa gagcactgga gatagagtcg gatacgcctt aaaggacaag ggaaaacagc 60
 tcccagtgga tggtagacac atggcaaaaag gccaaagagta gaagcacctg cattaggaaa 120
 aggaatcagc caaggtccca ggcaagaaga ggtgaggcaa atggaggctc tgaggaaagt 180
 ggctccaaaag cctacatgat ggaagataac tctggaagag aaagagatga ccgttcctaa 240
 gcttgatag caaaacttga gagaaggtaa cgaagatgtg acatctgaac tcagagaaat 300
 ataacttcta tagaaaagaa acaaggcctt gcagctctat aaggaacagt aaataaatca 360
 agtatgcaca caagaagtaa aaaaatatat ccnagtagaa aggaagcttt tcattgaaat 420
 gnccccagaa ctcatgctct tgganggccg ggatngcaaa atcaagnntt tttttaaaaa 480
 ctcctaccgg g 491

<210> 237
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 237
 aggataaaaa agaagtaaga aaatagagtc tctgaatata gatctttcaa ctgaaaaact 60
 gggctgtgaa gcttttggac tcgaagtaca gcctttcctg agtctccagc gcactggcct 120
 cccccatca gattttggac tctccaagct tccacaagca caggagccaa ttccttaaaa 180
 taaatctgtt tctatatcc 199

<210> 238
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 238
 cccccaagga ctgggatcaa tattggaac ctgtgcttta gttcttccac ctctgctgct 60
 gctatgctgt gtgacctcag gactgggccg actgggagca ccatgtggag aacagagaca 120
 aactggagtg ccttggggag gaaggaggag agcacagtct ctgagtcagc catgaggcag 180
 agcaaataca agtggtcag caggaagaag agtgctggtt ctgcggggtc ctaagaggga 240
 gatgtacggg ggggtgtgctt tgttcaatat gacaacacta cc 282

<210> 239
 <211> 206
 <212> DNA
 <213> Homo sapiens

<400> 239
 attgagcacc tgagagtctc aagtaacaca cctgggttgg ctgctttgct gaagacactc 60
 cgtacattgt gacttggtgc tctcaccatc aacaggaatt gggctgtgca agcaattctg 120
 aaagaagtgt tgtctactgc tgtgaaagtc atcaacttta tcagacccca gtcttgacct 180
 cagccttttc aagaaatttt gtctag 206

<210> 240
 <211> 472
 <212> DNA
 <213> Homo sapiens

<400> 240
 cacttggcac tgtacnaaac accttcatat ataccctgtc accctgactg agcaggatcg 60
 ctcagttcca ttttacagga tgaggtgaag acttttcaaa gccagagctc taccctgata 120
 gcacaccgtc aggatgttca ggaagagcct catgggttat tacagctcag gatgcatcca 180
 gacactgtct ccatggcctg cggagctgct ctctgaggac tcacttcaact gcccctcatt 240
 tcccaggctc atggagatat actacctgtc acctctgggc ctggagggca gatggaggta 300
 agatgcaaag gaagactgcg tcgtcaaagc agatggaagc attccctaac acctggggcca 360
 tcctgggtcc taacttaatt actaaagaat aagggagatt tcaaagnaaa atgnncagac 420
 atttgnttat ttgaacataa aactgggggc ccnccaccag tatttttgga ac 472

<210> 241
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 241
 ccttgcaaat angtgatttc ctgccagtc ctgcctctgt gaccaacctt gattgttcaa 60
 agtatagctc tgcaagcagt ggctacggac agtttccaac atgcaagttc atctccgacc 120
 ccacttcac atctctcctg ccccagcac tcttgatgc tatgctgaat tgttttgga 180
 cctttggttt gtgagccttc ttaaaccctt ctttcttcta ctttattatt atcattgtat 240
 tataaaagca atagatgctc attactttaa aaaatgtaaa agc 283

<210> 242
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 242
 gcactgtctt cataagtcca caggtctcaa actccagcat ctcagaatga aaggattcac 60
 aagtgtcac aagaggcttg gctgccaggg gaagctccga cctgaagatt tgaactaatg 120
 agggactata aaggccaaga ccttggtctt gccattttag agattcagaa tataatctac 180
 aaagttagag att 193

<210> 243
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 243
 cctgcagagg tcanggagag agcccgatgg cggctcttaat gaagaggaag gaggaaagga 60
 cgcagctttt tttaccccc ggcttaattt actccgtatt cggcttaact tactccctat 120
 tctaccctcc ggtcttcaag ttcccttaag ctcggtggcc tggtagccag taaaactaca 180
 aggaaatggt ctgtgtggtg aattttgaag ctgtccacag tacagatact ccagtgtctg 240
 cccttccaga aaagagctgg acctaagggg tectctgtc tcacgtgcag actcccaggg 300
 cgggattaaa aaggcaaaaa tccnnngttt cntngcaa atccnngnant nngggnnnga 360
 nntnntntg ccncnntttg ggangaang aancanaatt aatttngggg ctntaaaggg 420
 tttatttata aangggcttn ggntttctat tttattgggg aanaaatncc ggganttaaa 480
 aatntaaaga cccctttcca a 501

<210> 244
 <211> 327
 <212> DNA
 <213> Homo sapiens

<400> 244
 gttcttcccta acaagaagct acgaagttct tattcagaaa aacggaacac gacatcacac 60
 ccacgtgaaa aaaacgcttt taagaggcca agtcactttc acctcccacc aacttgccaa 120

aggctgaaag caggcggaca cgcceccaag cgctcttctc cgatttcatt ggttgccccg	180
gcctgctcct cattaggtct ctctcactgg tcagcaatgc cgctttcaca gccaattctc	240
agaaccaatc atctccaact attgccccgc ctctccacca cgtgagtggc ataggtgcca	300
accaataaaa aaagaaaata aggatgt	327

<210> 245
 <211> 100
 <212> DNA
 <213> Homo sapiens

<400> 245	
gcangggcct ccngnggttc aagggtacaa taanctgcga ncggtccnct gantttctacc	60
tgggatgaca gagtgggacc ctgtgccaca aagagagacc	100

<210> 246
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 246	
aaggctgtct cctgcgagga ccagaagttg agccaaggca cgtggaactt acaatagcag	60
atggtaagaa ccagggcaga aggagaactc ctgaagcctc cgaaggaagg aaatcattac	120
agggccctac agaagtaggt catgtgctac agctgctcat agtttaagag gaagaaacat	180
gggatctcaa acctggaaca cgactctttc aaaatgcctg tgagcaacct aagaaaaaca	240
tcctcctgag gcttatctaa taaccatgat ctctaactgt ctcaatgtgt gctcatgttt	300
ccttaagaag tttgcaccca cttctcagag ctaacgagat gccgaaacag aacacagaaa	360
aaagtaatga aggagattta ataagntgng ntaaaagctna tatgggccat taaggggcng	420
gcttttttta aaacaanggg gnggaaccgt tcccctnttt tttggnggaa aagnnttttc	480
nggggacang acctggaac cattc	505

<210> 247
 <211> 139
 <212> DNA
 <213> Homo sapiens

<400> 247	
ataaaatctc ctggcagaga aaatggacag tcgttccata ccatatgtct tctcagcttc	60
aaaatcaaca acaacaacaa caacaaaaaa ccccaaaact tccatcatct gcagaagtca	120
aataaaaactt tcaaaacttg	139

<210> 248
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 248	
ttgtaaatta tgctcatgaa aagagacccc agcatctttc aaactgangg ttaaccttat	60
tatcaggata atcaccaatt cacaggaagt tgcaaggatg gtatggagag cttccattta	120
ttctcgggtt ttcccgaatg attacacctc acataactgt acctcaggaa actgaagctg	180
gtacagtgtg tgtgtatagt tccatgccat ttcgtcttaa gtgtagatct ccaatcaaat	240
aaagaaatat cctgtcacca c	261

<210> 249
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 249	
gtgggggtctt tcagtatgta caaacatata tgattcagga taaaagatgg atcgtaacctg	60
ttctcaccac agaaaagtaa ccggagactc ttctaagaaa tcgagaaaag aacgcccttt	120
ctctgcccct cctgtctaaa gcgcaacata ataatcgaat ctcccaagct tcttaggggtg	180
ctgagtgttt taatccacca gccctcttca actagttaat aaatcctttc cagaccgaga	240

g

<210> 250
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 250
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 atntgggtgga agcaatccaa ttgcctgcag aatcatccga aagcatcact ggggaagaagc 120
 tgggtggaact aagaagcaat tcttttagcct gacagccagt ctgttttttag tattttctaaa 180
 catgaaatca tctcaggaga agccaagggc tgctcgaggtg atttgccctga ggtcctacaa 240
 ctcatcactg actgtgtttg gaggaaggaa gtaattaact ataaatgtga ttataaggggt 300
 ggggccttaa tctgatagga ccagtgtcct tataagaaca ggaagtgtgt gccgttact 360
 gaggaaaagc catgcaagaa cacaaagaaa angcggtgt cttgcaacct ngaagaaaaan 420
 ctttgcttaa aactaatcct gccgggcctn ttaatcttgg naattccagc ctccaaacag 480
 nganaaataa aggctggtg ttatg 505

<210> 251
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 251
 agaaacaaat acatcaacgg agacaacttt ggaacaatg gaaacaaaga accaaaaatg 60
 ggctgcaca taaataaaaa ctccatatac 90

<210> 252
 <211> 589
 <212> DNA
 <213> Homo sapiens

<400> 252
 aagaaggggg tttccgccat ggttngccca ggctggtctc aagctcctga actcaagnga 60
 tcttcccncc taagcctccc aaaagngctg gggattacag gcatgagcca cgactcccag 120
 cctgaaatat annattttta tcttcagctt gcattttgtt ctaaacaact tgttttcaaa 180
 taagaaccgg gcagaaccaa gtttaagcca ccatttgttn ggaggccaga atcaatttta 240
 ttgggtgggtg gttcaaaaatn gggaaactggn actaagcctt ccttcttccc ctccatcctt 300
 cctagcccat tgnngcangg gggaaathtt tctcnttttt tggngggggg taaaacaact 360
 tctttccctc attctgggaa ttngcccttc aacctaatg ttggacaaac cgaaaaaaat 420
 ttcaaaggcc ccccaaaaaa taagcaaggc aaggcttacc attaatncct ttggcatgg 480
 aacaangggg gaaaatthtt ttttggcctt aaanggnttn gggggcctag ccaccttgaa 540
 aaaacaanna nggccgggt tnacctttcc gaatcntggg gggcttcca 589

<210> 253
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 253
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 gcgntttntn ttgngacat cacgggnccn ananaaaatg gnttaattta tgtaacaaat 120
 cccctctgga ggacaccana actgngggc ccctnttttg ccctnatccg cngaaagnag 180
 cccgaatgac cactncccag gtnccaacag cananggggg ggcenntcna aaaacnagga 240
 ctgagaggag ggacccccg gctttctggg tctgcnggg gctcacaaaa gttgtgaaan 300
 tcattttatt tcttgntca agacnttctt ntgtgctggg gngaanaaaa attgaaacat 360
 atgcttttaa aaattctaac aaccacggag ttngcattg tgttttnttn ccccaagaaa 420
 agcttttaac agnggaaaaa tttgntnta agcttncctg ggggctctnt tctgggggtn 480
 cctttccttt tccctgaa 498

<210> 254
 <211> 303

<212> DNA
<213> Homo sapiens

<400> 254
ggccttcacg gaaactgctc tgggtgtcaca gaaatatatc caaggatgga gtgtgtacgt 60
gtacaagctc gtctgaaaag agttggcctg caaatgggag aagctgtcca agaagtattc 120
tcacaatgaa ataatacatt tattttgtcc ataccgacaa acaaccagtc aattcagctg 180
gaggaaaaaa caaacaacaa aacaaacatt ttattttcca aatttgtaat gagttcgctt 240
aattattttt ggtttattgt gttatctaca tagttgaatc ttaaatctga attttcataa 300
ccg 303

<210> 255
<211> 441
<212> DNA
<213> Homo sapiens

<400> 255
caggatggcc tagatttcct tacggcatcg aggacgagat ccaagacagc aaaagcagac 60
tcngccaagc ctcttaattg caaggccctg aagcagcaga gcttcacttc tgccacctcc 120
tattgggttaa agcctgtcac aaagcctgct gagattcaga aaaagagaga tagaaccac 180
ctcctgatag aaaaaagctg cacatgcata aagaaaggag aggatttgac agctatcttt 240
gaagagtatc tgccccatta agccatggga tattttcccc ataaaagaaa ggactatgat 300
ctggattgta gaaactgatc tatagacatg aatctgaact taagagaatt tgactaattc 360
catctgntca aactggcatc actcacacat atttctgnaa ggattcactc ttccatgggt 420
agcctcaata agaattcatg g 441

<210> 256
<211> 431
<212> DNA
<213> Homo sapiens

<400> 256
aaaaatcctg cctcngtgc tcttgagtcn ctncnttgcc tncaggnggg tccctggcnca 60
aagggggggt ggcataccag cttaaagaac tgtgttcnnt tgnctgcaac cctgnagtac 120
anngnatnng aagncctatg ctgctctgan ggcgtcgga tatngnancg atccttgctc 180
cctactanac tctggtgcag ggctgcanat ccacaaagcc caagctgcag caagtccgaa 240
ggcgcnccgc anggggagtt ccttctcagg agactgnggc tttgctctta cggccttcga 300
cagaatggat gaagcccccc cccctnttgg anggtaaccc gctgcattca aaggcnaccg 360
antnaactat taatectatc tnaaaaacng gcttccanaa acaaccacac ttgtgtttga 420
acaaaaactg g 431

<210> 257
<211> 332
<212> DNA
<213> Homo sapiens

<400> 257
gagcctntnt ccctggcaaa tgggcttcac tgttcatcac agaaacctcc tgaaggaccc 60
atctactctt caatcaacag ctgggtgccct acgattctct gaatcccttg cctggcctca 120
aaatccctca cctcatggct tccaccagtc ctggactact gtgttcctta cacaacccta 180
accaagcccc cacattgaca caccacactt aaagagnact gctaggcttc agaaaaccca 240
accttgcttc cttcctccca gacaggccaa agccctcttg aatcagcgcc ctcccttcgg 300
caagtgagta ataaactcag ctttgcctta cc 332

<210> 258
<211> 309
<212> DNA
<213> Homo sapiens

<400> 258
gtgccaatat cggtcagaga acaggatttc agtggcagag ttgttgctat actgttatct 60
cttcagaacg gaggcacaag gagagatgaa tgccacatcg caaggagcaa aggagagaga 120

gagaaagaaa	tggtgtcagg	tgccatgttg	gatgtgattt	ttgttttagt	agagattgag	180
atgactgtaa	attgttttagc	tgattccttc	ggtctgcaaa	gatacatttg	tggtgggtgct	240
gatggttctt	gactaatcct	gtttcaatta	caaattgggt	atgtttttca	aataaaaactt	300
ctggcactt						309

<210> 259
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 259						60
gctttggaag	gagtttaaac	cttaagctta	ccctttcaat	catccactac	cccagggaca	120
gaaggtgggg	aaaactcaaa	ggcacangct	tgtactgaga	agttttgagc	aatggagaag	180
aaagtgggag	cttctgactg	accttagccc	accacagtca	ggctncaaga	ngggagatgg	240
cctgggntna	tggtctgcctt	tontctgggtg	nnccttacct	tttgggaaaa	ccccanggn	300
nagaaaagtc	ttcaagtcctt	gtcagactgg	gaagtcacca	actcccaacc	tnaggaagca	360
gcccttggaa	angagaagga	tgagattttc	caaagctatc	tcttaccact	tcccttnccc	420
catctcattc	cntccatnta	ttggggagaa	gncctctnaa	gttnggcctg	angcttctga	427
gggattg						

<210> 260
 <211> 478
 <212> DNA
 <213> Homo sapiens

<400> 260						60
acatggaaac	tgaggaacag	agagatcaca	tatcttgcac	aaggtcctac	agttggagag	120
agaatgacta	tttcaacaat	ggcaaataag	gttcatcatg	tatgcacact	ctgattgctt	180
tgtggtggct	tcctggatca	ctgggttgaa	aaagacccag	gctctgtagg	aggtgggtga	240
ttaatgatgt	ctgccattca	gaacaaagat	gtagcagcag	gtgtacctca	tttttgctgt	300
ctctggacta	ttccattgaa	gccttttagtt	cctggattat	ccaattagcc	ctagctttcc	360
tggcagtgtg	atctccctct	gccttaatat	cagccctcag	ccctcgggat	tcttctctct	420
gatatccaca	ctcattgcct	ttgtctctct	gngctcccta	aaacaacgac	ttttcttccc	478
caagccnaat	tggaantaan	tcctacctcc	agnngnanac	tggccccggt	cggcagcc	

<210> 261
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 261						60
gaaagtagcc	aaatcacctc	cctggctctg	gaaggggtgtg	gaagtgggtg	agtaagagtc	120
ccagcccaga	taagggatca	ccaccagaag	atgaagaaga	tggtatgtcc	agagatccaa	180
aggcaatgcy	ggcctcacag	tagatgccag	cacacagtgg	tgacaaacgc	ttggacaaaa	240
cccatcaatc	tcatgaacag	cagagaggag	aaacattgag	tgaggatcag	cagcctccta	300
gagcactagg	ctcctgcata	agtctcctgc	aacttagata	ccaccttgag	gtcgggggtg	360
gtgacagggt	tcattgtcaa	ttgatgagtt	tgtttcaatc	taaaaaaaat	taggtggggc	412
ccagaatgaa	ctaagatgat	gtttttctgt	cttgganggg	accgggcctt	ga	

<210> 262
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 262						60
gctccagacc	tgtgtgtgca	ngctgcctcc	tggatgcccc	tcggttgtct	aatggacatc	120
tcaaacctca	catgtctcca	cttgaaaagg	atgagtttca	tggaacctga	gcatgcccac	180
atgcccctac	tcccttgtgt	gccccacac	cgtgcctgct	cttccttcag	ttgatcaggt	240
gaaaaacctca	gagtcacttt	taacacctcc	attctctctc	tgtgccaaca	accaaattat	300
atccaaaatc	tgaccacttc	tcaccacttc	cacatggact	gctgtgttca	agccaccacc	360
atctcttgcc	tgcattagtc	cagcagtcct	ctanctgaca	tggggactga	gattcagaat	389
atttgggatc	aaaggtctta	tccctgaat				

<210> 263
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 263
 aatgttaacc acaggacgtt ccagctgtga ctcattgcaa ctactgacaa gcaagctgga 60
 gtggccctgc ttttagagag cctgaagatc tactcagagt gaacaatact tgaagttcta 120
 attgagttac agaaaggaaa ctagtataaa ctaagaaaga ttgagattct caccttgaat 180
 atgcagatct aatttctata actgtgttta ggggtatttt tctaaattac taaaataatg 240
 cttacatttt caaattggcc attaaatata tcttcagatg cggagatgtg tatattac 298

<210> 264
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 264
 acagagctct gcaggcacag ctgaggacgg cctctctttg ggtccccag actcatcctt 60
 gggagctcac aactggcaga gggagacaag ggcgtccaa gcagcagccg tgggggagtg 120
 gtgatctcca gcttcaactg ccggggccgtg aaaacaggaa ccagccctcc aggccaccgt 180
 ttctctgaaa ccaaagctca gcaaccgaaa aaggatcaaa aaagcagatg gtggagggtg 240
 agcgaggcag ctgtgcttct cagtgcctcg tgcctcctc agcccatct ctggcacaag 300
 tgggtccaagc agcccaggac tccatggcag gccctaccct tgcaggtgaa ctgcctcggg 360
 tctnccagcc tccacattca catatttcaa acagaaacac caccaacttn ctgggctnac 420
 ccnttgggaa attccccaan gaaaacaaag ggggactcat atttgggcca 470

<210> 265
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 265
 ctgaggaaaa acctacaagt ctacttggag gaatccccag cattttcaac aggatgtcag 60
 aatgaccttg ggctatgttg gcaaagcaca atgggaagaa gacaaccaat tgaagggtcaa 120
 actaggcctt aaaaaaaatt gttcttcta aatgaaactt tatgtaagac ccaaacttcc 180
 tttatgtaaa aataggatac cc 202

<210> 266
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 266
 ttttccgtct gtccagctcc accactaaat agtgtcttta ttccgaggag ctacctgatt 60
 tgggactcag tcttcctaca agggcaaaaag agaagacctg gatgtctcac gtgggtccaga 120
 catggagcaa gttaaaccgag ctctcgccac accgcacagt ctctcagcc tctgtctcaa 180
 tgtgttttca ttggaaatgc ttattgtaaa tgatgacact tttttaaaac caaaattcaa 240
 ttaaattcaa tacatatt 258

<210> 267
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 267
 gataataaaa catgaagtgg aagatcttct agaccagcac cttaaatttg cagatgagaa 60
 agttggaacc cagaaaggct gagaggctca aggtctcaca actgtttatg ctcaactggg 120
 aaatgaattt gtttctctgg cccatcaggt caacattctt tccactcagc tatgccgnct 180
 cctacctcct gaaaagattc tagcaggacc ctctgatgaa aaggacctta tctttttata 240
 tctgtgtttt aaagcttttt tttaaaatca tcgcacgatt ttatgagtta agttatgtac 300
 ataaacaaat actattactt 320

<210> 268
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 268
 gagcatgacc agcagactaa cgcagcaagc agatgatgct cctgatgaaa agggcagacc 60
 cagttgagcc tgggctacgc tgacacagac tttgttgctc ttcatttggc aaagtctctc 120
 ccagaatccc tgcaggcata caacagatgt tcagtaaaca ctcggttgat gagaactctg 180
 ggaagacata gctgttcgac gaacaggcat cagaatttat catttgaaat tatcaactca 240
 aaaattcttt ttttcctcat acatattctg cttatgtatc aaaaattatc ataagaaacc 300
 aagatttctc agaacatgtg aggtcaaaat ggcttataat gtaaaagaag tggagtctca 360
 atctatactc agtatctccc tctcttttat tcatacacat atggacactt gcacttctaa 420
 gaaaaaatga atttttttta actcattcat ttattaaatt gatatggatt aaaccangna 480
 atattcataa catattct 498

<210> 269
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 269
 cntctctgga gagcttncat ctgcaccatg agcccatgcc atcttctgac tcttgagct 60
 acagtgaaga tatattttgt attaatgctt aacttcttca tttcagttgc cattgaggta 120
 gcctaataac attcataagt aaatactgga ttttagtttg caatagaaaa accttccatg 180
 taatataata tgtctatata attaataatt aattactttg ttaaaatatg tatcttttaa 240
 taaataaaca ttggtagaga ccaaaaaaaaa aagaaaaaaaa aanggccacn gnggccatt 300
 cagctnggac ttaaccaggc tgaacttgnt caaaaggggg gg 342

<210> 270
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 270
 ccagcattta tggatcttca gaggnittctc tctgtgataa ttcctcatca aattaccaat 60
 aagaaggata tgaaactaca gccccacaaa ggatgcctgg tgaccttcgg ccttgagatt 120
 tacagtctgc ggaagcaata aagttcctct cctctctct 159

<210> 271
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 271
 ggcaccgcaa gacaacgtat ctccccctcc ctgtgcaatc agtcaaagaa catttagtca 60
 acctgaactg ggagcacagc gtccttgggg ctgttgggca ttcaaaagag tgtggatcag 120
 tgtaaaaagt gcctcatgga gaaatggagg cctgaaagcg actctgaagg aggagtgggg 180
 ctcagcaaac agcagacgag tttcaatcca agcacccatt acccccctaa cacacggcat 240
 acgtgcatct catctctctc tgtgtcgcta agaagctacc catatgtctg tcatatattc 300
 tccagaatcc ttggacacac ccctctgcag agctttctaa cagaaatata agtctcagat 360
 ttttttttaa gttaaaattg agtgcagcac tcataccttt ctctgagcat gaaccgtcaa 420
 tcaacactgc ctcatgagct actgntctcc tgctctttta aaagacaaan ccttatttct 480
 ttgtagngat cncaaagngg ngggattnac cgggaaactt t 521

<210> 272
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 272
 agtttcactc tcagaggagg attttgttct tcaattgtgg agtgatctct atcaccagtg 60

actaaagcag	atgttggagc	acagagagcc	ataccccaaa	atatgatgct	tgggcatgct	120
gactgctttg	aaaattgaaa	ggcctcagaa	ataatcctca	gtgccagggt	ctccctctga	180
cctcccccta	cctccctttc	tctctgatcc	tgtctctccc	aaagcacaga	atgagctggt	240
ctctgaattc	ccttatctac	ctagaaactg	gacccccaaa	gaggaacaca	atttgccttt	300
gatcccttcc	ctgaaatttc	attaaccaga	gaaaattaaa	acttctatca	caaggaagag	360
actgaacatt	aaacaccata	gctacagccc	agacaaactt	cttcccaaac	cattgtttgt	420
tctcctgcct	gttaaattgc	cagagaatca	ttcacaagac			460

<210> 273
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 273						
ttgacaggaa	ggcaatcatt	cattcattca	gcaagcaagc	aagcaagcat	ccacaatgag	60
cctggatgcc	acatggacca	cgatcaccaa	ggagatcgat	aaatcccaca	atgttggtcc	120
ctgtcttcaa	aaatttgtca	agaagattga	gateccactgc	tgtaagatta	cacagatgcc	180
ctcctcatcg	tctatgacag	gctataataa	atcttgccag	actt		224

<210> 274
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 274						
aggcgagaaa	ctgtgggata	agaggctgca	gcaattgcat	gagtagaccc	tgaaggtatg	60
aggtttggtta	aaatggatgt	tcagagaagg	cctgacacaa	gagggccact	ccatttgtcc	120
ccacggacct	gggcccggatc	tctcaatttc	acactgatgg	agcctgaaaa	tcaacaaaca	180
agacggcaag	aacaggggaag	acattgttct	ctccaaagtg	gacaatttgt	gacaggccca	240
ggaaggctgc	ctgggcttta	tagcttttcc	agtggttcct	aataaaccag	gctttgtgtg	300
agcctcgttc	aagccatgcg	gggcctctgc	gtttcttt			338

<210> 275
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 275						
tcccagggtg	atccaccagc	tccgaagaga	cagcgaccan	gcaagaacgg	gccataacga	60
cgatggcagc	tttgtcaaaa	agggggatat	gtagggaaaa	gagagatccg	actgttactg	120
tgcttacata	gaaaaggaag	acataagaaa	ctcctttt			158

<210> 276
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 276						
acttcagttg	accagggcaa	ctgaaaccga	ggaagcaaaa	ccatggaccg	tggaaagaag	60
catcatatag	gactactgta	ttatgtatta	taggtggctg	tggtatcaac	atacttagtt	120
gataataaaa	atgtttgcaa	agtc				144

<210> 277
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 277						
gagcccatca	tggcgacgcc	ccctaagcgg	cgggcgngng	aggccacggg	gganaaangg	60
ctnggctnca	aaactttant	antgancngn	ctgcacggga	ctggcgaaan	ggggctgaac	120
catcgaaaca	gggtattatg	aagccagctg	ggccaaatac	cttcaactgg	agaaaatggg	180
catttgagcc	gaacttncag	ggaaagctaa	agcactcggg	aagttattat	atgccagggtg	240

ggattttggg	cctggtaaac	tttcttcgtt	tggacacagt	gggtcccca	gatacctttc	300
acgccatcta	tgtggccctt	ggggaaaaat	ggtttttttc	ctggagggtg	acacctgggc	360
aagaaagcct	tctaaagttt	catttgattc	gtaaagaact	ctctcctcac	aagaagcttc	420
aagcaaacag	ccctcaccca	agggactcca	tgaatatca	aaagcccata	tccacatgtt	480
gctagagggg	cttaaaaaac	tacaaagggc	tggagaaatt	tncaaaaaaa	actcaacatt	540
ggcttttttt	ccccctactc	a				561

<210> 278
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 278						
tgtaagctcc	accagagcag	cagactctca	taaaacctca	tgggatgaat	gaaaggagtg	60
tcateccctta	agacattggc	aacaaaagca	tagcctgaca	tattctacta	caagtgcctg	120
cagtaacctta	tgcagagagg	agcaaatgaa	ctcccacagg	aagggtggacg	atccctgagc	180
cagagataac	tggaactctg	gcagtttgag	tggacactca	gtcacacact	cacacactca	240
ctcacagcgt	tatgcaattc	caaaaattat	gtgtttgggt	ccaggaagat	acattttttcc	300
cctctaagtc	caaaataaag	atagaaatgc	atatatct			338

<210> 279
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 279						
gttcccagta	gctgcagcag	tgaaagacag	tgattggctc	cagtgcctcc	agaaggattt	60
gggctgaagc	caggggaaca	gaaccagaag	aggattccct	ttccagagac	catcaggctc	120
ctcatgtctt	gtctctctc	tctcccctcg	tgggtggctca	ggatttcagt	atggctgagc	180
agcccatagg	taggcctcaa	cacttggtgt	caccacttca	gtctctatat	gtttggccct	240
tgtgtaaaat	aaacaaaaac	ttgggcaacc	c			271

<210> 280
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 280						
gagctgggtca	gctctgacct	ggagtgtgtc	taccctgacc	gtgtgacacc	gggatcaaga	60
ccctctctctg	gggtcttgag	gacgccacat	gtgggcgttg	ctctaaagag	cgttggctcc	120
taagcctcct	gcacatggaa	ccccaccatg	gaatctgctt	cccaggaact	cacctggga	180
ccagccctc	tgagactcaa	gtcaacattt	ggtcctaggg	ctgcaaagag	gaggtgctaa	240
gaggccaaag	gctacttcca	cctggagaac	gggccccg	tgccagctcc	cccaaggcct	300
ggccaggatg	ctctgctcgg	aggcctgtcc	tgacttctc	tgctcattgc	acctgaaatt	360
acctaaccac	cacttttctt	cctcccaccc	ttccacaaat	acttattgag	catctgctag	420
gtgccaagtt	actggtctgc	acaatgggca	ttacngggcc	tgaaagaaat	taaacnggaa	480
ccttcttgtt						490

<210> 281
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 281						
gagtgattc	atcccaccag	tgcttcttct	gcagacagta	aaatatggtc	ccagtgacca	60
tctcagggtg	catgcttcca	gcattttatc	agacaaggct	gaagacagca	gacattaaac	120
ttcagttgtg	tgctccacag	aacattagct	gtcttcatca	ttactttgca	tctttcagtg	180
ataggctgct	tgacatgtta	ggaacctgaa	aatgatccca	tcttgaccga	atctcaaatg	240
cccttctctga	gcagcactga	tgaaacagat	ggagcacctg	gatgttatct	gctttggatc	300
tggttctcag	gaggaggagg	agcagaaggc	tgggcacaac	ggtgtttgag	gttctcaact	360
gccccagaa	agaagggttg	acttgattta	cattgacttc	aacttgatta	tcttgatcta	420
cttaactggc	ttttcggtt	ttatgcttca	agcncggcg	angantggct	tccttntggt	480

caacttgcac gnccttttgac ttgggattta ac

<210> 282
<211> 393
<212> DNA
<213> Homo sapiens

<400> 282
gctgtaagct ccttggaggc aaggattctg tctgcttcac ctctaaagct tcagcatggc 60
atgtgccctg caaatggcag tgccagtggg catatgctag atgagtggat gaaggaccat 120
cccacatcag ctcatcgctg agtatgcagc tcagtcctcc cgctctcag ggacaacttg 180
gatcttcacc gttcttcgcc actaagaatt cnagtcattc acattcagag ggaagctgag 240
caanctggct cctgcccaca ctggaaaatt tctctgccta aaccagcttc cctaagccga 300
ggggagagtc caagatcccc aagatggcag ggccgtgcag gctcctggga ttaagacaca 360
aacaagccct gttctcaggc tgacagtaaa tgg 393

<210> 283
<211> 139
<212> DNA
<213> Homo sapiens

<400> 283
ttactcatgt cagtaagcgt ttactgagta tctcctgcat cctgggcact tctccactcc 60
aatgtgacag cagtgaatca aacgacagct agccctgccc gcaggcactt gcattccaga 120
gagaggagac aaagaatac 139

<210> 284
<211> 482
<212> DNA
<213> Homo sapiens

<400> 284
gtccttgatc tctgtggctg tgagacgatg aatctagggg gtcaccccag acaacgaggc 60
tgcttcaaaa tcccaaagtc caaaggagga ctgcttcata aggggaaggat tgtttatagg 120
ttggtatact gtgcaaaaatt aagtatagga ccaaaaacag ccaagacatt tgaaagttgg 180
aaagttgatg gtaatggttt cctgggattg gaaggcagac ctctccgct gatgagcaaa 240
taatgaggct gtgctatgat caaggcattg tgaccctgt gacccacacg tacacatcca 300
gaaggtctcc tggagccaga aagtctggga caacaggaaa accacaaaag aagaaaaaca 360
gctcctgtct tagctgatta gccaaccttg cgaccttcta ccattggaac atgctctacc 420
cttacttant aatncacttt cnggaccntg ggctntgtga cccctcccc ttgggataat 480
aa 482

<210> 285
<211> 241
<212> DNA
<213> Homo sapiens

<400> 285
cctccatgct ctgaggaacc ccaagcagct catggagagg cccacatgga ggggaagagg 60
agctcccagc cagcattcaa cttgtcagta acggaagtga accatcttga aaggggatct 120
tccagtctcc aatcaagccc ccagcccaca ctgcttggaa cagagaagcc gtccatgctg 180
agccctattc aaattataga ttaatgagcc aaataaatga ttgttgctgt ttaagccac 240
t 241

<210> 286
<211> 222
<212> DNA
<213> Homo sapiens

<400> 286
gaagtgggaa tgatgcatat tcaacgacgc ctacaaaaat tacttcagat tgtagtctc 60
agaaacccac tgggtggcctg aggggacatg caaaaagaag aggaacagga gcagagatgg 120

```

caaattatta aggtttcaag accttaaaaag agacaatcaa agtattcaga ttctcagtaa 180
aattaccaga ttaaatcaaa taaaacccca ccttttttcc ac 222

```

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<210> 287
<211> 280
<212> DNA
<213> Homo sapiens

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<400> 287
attaaatcaa gattatgtct gacaaccctc tcaaatgat aaaaactaat ctgcagagaa 60
aactggctgc agaggaaccg gctgcagagg aaccagctgc ttctcctcgc gaacatgaag 120
aggtgaacag agagatgaag cctntttntc ctccctcacg tttntgaang atcaaaatca 180
agggcancng ggagaaagaa taacaaaacc aacaaactgg aggtcaagga gagntttttt 240
ctttttttta cttttctgcc ttttccattt ttaataaaca 280

```

```

<210> 288
<211> 435
<212> DNA
<213> Homo sapiens

```

```

<400> 288
ggcttatctc cttgttgtat ccagaatcat atgacaagca agagtcctag aatattttat 60
ctacctaatc atcccactgc cttattccag aaagaatcta aggaggaatt tttatttctt 120
cagtcaaaag atgcaggaaa gacatcctac ctcttggaag aatcattgga ctggacatcc 180
aaacacctga gtcctagcct tgagtctgcc tctcacagca gtatgaccct gggcaagtcc 240
ttgtggaata agggcatgga cagaatgatg tcagagggtc cttctagctc taatattcta 300
cagtttcttt ttagtttcaaa tttaaagaca aaatgtctaa cagtgggttct tgtttgttat 360
gaccagtgtt gncaaaagag aagttgtaca aagttttttt tgccctgnttt tcatgnatgg 420
gggagggggg gggat 435

```

```

<210> 289
<211> 166
<212> DNA
<213> Homo sapiens

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```

<400> 289
caaacaggaa caaaggaaca aagtgagagt ggagactgct gagtcatacc taggagaaga 60
ctgcaactca ccaggggagt gagtcttcac cctaactcac cggggaactg gaccgaccca 120
gacaatttgt taagttctgt ttccattaaa cataattctg agtctg 166

```

```

<210> 290
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 290
gaatttatgt tgatgcagtt aactccttgg gccaaacagc acttttttgtt gcggcgttat 60
tgggccttag gaaattcgtt gatgttctgg tggattatgg atcagatcca aatcaaatgg 120
gagccctgtg ttgcacgctg agccccgctc catggaatgc aggagcattg ccatggacat 180
caattgtact catctccctc cccagccgct gctttgatgg gagcaccctc gtccatgcag 240
cagcattttc gggcaatcag tggatcctta gcaaactgct ggatgcagga ggtgacctgc 300
gactccacga tgagaggggt caaaacccga agacttgggc tttgacagca ggaaaggagc 360
gtagcaccca gatagtggag ttcatgcagc gctgtgcctc acacatgcag gccatcatc 420
aaggcttntn tttccaactt cttgaaaaaa aaaaactccc cgcagggggt tgtttacagc 480
ccgtcctggg ggggttgggt tctttttt 507

```

```

<210> 291
<211> 192
<212> DNA
<213> Homo sapiens

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<400> 291

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tgaatcgaac gccacactca ggtgagntga gaaaccctta ccgcgcgcac tgcaatgccc	60
tccccttcac tctgcaccct ccacccccct gaaattctgc ccttaggcta cggggcgctg	120
tcctttcgca ccctccccc tgcctgccaag ttgtagctat agctacaaat aaaaaaaaaac	180
cttggtttcc ag	192

<210> 292
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 292	
gtggtagaag tctgtcttct ccccgctgct ctaggaagac cttcatgtcc tccttgacca	60
acaggggatg gtggaagtga ctctgtgtga cttgtgagac aagattctaa aagtcatgca	120
cttctgcctt gttctcttgg gataactgct cttggaacct agccattgca gtgaggaagt	180
caaatagtct catggacatg ccatgtgtag gtgttctggc aaacagcccc aggtgaggtt	240
ccaactgaca gccaacgtca accacctgac gagaatgagt cttccagcct tgatctgctg	300
agtcacgcgc aactccagcc aatactgtaa ggagcaaaga tgagctgttc tgccaattgt	360
agcccaaatt gcagattttt gaataaaata aatgactgtt atcattgt	408

<210> 293
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 293	
aagtctcagc catgaacctt gcagtgaagg aggaaaacat cttatgtctt gttctctaca	60
acacaaaagat gaacataaag aagaaacaca gactctggcc tggagaagtt cagtgtctgg	120
tgggggagac tggataaata atttaaaaca tttatttaac acataattac agtgcaatat	180
gataagtaca atagctaaag tgtgggcaaa gtgtcgcagg aacaggaata aagaggagac	240
aacttccaaa aaaatctttac atacttaacc ttttcccgac attttgacct gaaaataaat	300
cagcataaca actcac	316

<210> 294
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 294	
gctggtagca gaatggctgt tggtattcca agaggccctc ccggactata tcccagtgtg	60
tatagtccag tgaaacgacg ggaaaactat gaccatgaag caaatctgga gcaccacctg	120
attttttaag gtagatttta ccgaaacac	149

<210> 295
 <211> 233
 <212> DNA
 <213> Homo sapiens

<400> 295	
gaaaagtgtg ctggctcctg tcctggatca actcagaaaa tgaaacacat cggattctgt	60
ccaggccggg cacagcaacc tggcccatnc atgtggagcc tgcagtgaca acttccgcta	120
tctgcacaaa actggaggga ggctgggggt gctccaagta taagtcttct catcancaaa	180
ccggaaagag aaagaccgac ctggaggctg gttatgggga taaaataaat atg	233

<210> 296
 <211> 143
 <212> DNA
 <213> Homo sapiens

<400> 296	
tgtacagagg aagaaccatt gtgaggataa agcaagaaga caaccgtctg caagccagga	60
agggaaactt tatcagaaag caactgtgct ggaaccctga tcttagattt tgtagtcttt	120
agaaaagaaa taaatattat ttt	143

<210> 297
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 297
 gtgatactgt ggctgacagt atttactggt aaatggagtg gaagtgagaa aacaccacag 60
 aagggggcac ctanattcga accgggggacc tcttgatctg cagtcaaag ctctatccct 120
 gagccctacc cctctacct gtaataagct tcttcctgt ccacctacgg tgactcaata 180
 caatcaagtt ccaccacac g 201

<210> 298
 <211> 77
 <212> DNA
 <213> Homo sapiens

<400> 298
 gctctgatga ttcttaagca aagagatgga agatggaatt tcaaccccat ggagatctaa 60
 taaacttacc cagagtt 77

<210> 299
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 299
 atgaaaaaac tgaggctggn aganggcctt gcccctgccc anantcatgn atntgnccta 60
 ngatggatgn ggaatnctgc cccaccantg gnggcnttat tattacaccc atattacana 120
 tntagaanac tgaggctcan cntgggtncct ttgccatgan cacacannna gangatanga 180
 gaggctggct ctgcctccta tgcncctcct gatccactct ccaaaccctc ctccagtccc 240
 ctgctccaag ccatacagta ggatgattct tataagccgg ggggtgtgaca tgccaaagggt 300
 gtctctaccc cacatactcc ctctggaanc aggacaagggt ttgcgtgagg tggacctggg 360
 ttctttctgg accagggaact ttgcctccaa gctcatttcc tcactctgtaa aacaggaatc 420
 caaccaacgt cagcctgaat gggctgtggc tc 452

<210> 300
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 300
 ttctcatca gaaggaagta cttcatcaat tacgtcctct tcattatcat caattttcttc 60
 cccatcatac tcattcttcgc ttcccacatc acttcttgac acctctgcct catcctccag 120
 atcgcttcag gatttcttct tcattcatcat cttcatgggc ttccagtgc agatcattac 180
 cagagtcact gtgttcaccc tacaaaatca gcatcatatc caaatttagc agaataaaat 240
 ggcctctcaa tgaaaaaagg atttataaac atctgcccac atacctcatt ctaggaaatt 300
 gtttctgata agatgccaaa cttagaattc tcaagaactg aggggaaaaa aacacttgag 360
 ggcagcaata catggagtc aantatgaat acctttgggc cttctacct cccctnatcc 420
 ttttcaaact catt 434

<210> 301
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 301
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 gccaatcca cctggctgct tggcgaccca ccatgcccac attttccact caagcctttc 180
 anatctgctt tgggcacctg aagacagaga gaatcatctt tcaagagtca gaaactttgc 240
 acgtgccatt cctctgctt agaattgctt tccctttctc ccaattgcct tatcatcagc 300
 ctgggaaaat atttatttcg gctcctaaaa tctcagatat cacttctcca ggagctttcc 360

cagatgcctc acttgattcc agaaggagct atcgccactt ttgcctggcg agtaccgttt	420
tcaccgttac acttatacgc tatggcaatt tattgg	456

<210> 302
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 302	
tgactatatg acgtgtgatg gcccagact gagtcaagaa gcagatgcaa gaatctagct	60
gactttcagg aaattagacc ttaaagcgac ttgcaaaaat gaaaaacgaa gcctcttcca	120
aattttttgt tttggaaaat tagttatatt tcataaaaaa cttacattaa agtatttatg	180
tcaagg	187

<210> 303
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 303	
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gtcattcaag ctccaggaac gtcaaggcct caacagtttg gacataattt taagcaacac	120
atataagacc cacaggtctc cactgatatg actggggatc tcatgaagaa actactcgac	180
aaagacagat actggaggga tagaagagtc tatgaagtag agaaaagagg aaagatctgc	240
aaacaattcg gtgtcttctt ttaacttgaa actcattcta cccactgcta cagctaggta	300
ctgtgtctct gctcagattg ctggagggtt ttgttngat gatctccttc aatacatcaa	360
tactataagt tctataanaa tcatctcaga gcttgtttan aactcatttt ttttcttttt	420
ctgggntatg cctttataat attcattta	449

<210> 304
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 304	
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tccccggcag ccatggcctg cattcgtgtt ggtccctcct cctgcagccc cgaggaggca	120
gggctgtctg tggatcccag atcggttgct ggaaggcccg gaagaggaga gctgccctcc	180
accaccactg tctcctctc ctggacaaca gagtcagaac actgctgaga tggggtgaag	240
cataattgtt gcactgagac tcaaaactac aggcaagaag gtttgaaaat acagaaacat	300
ttcacgaat	309

<210> 305
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 305	
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aatggtggac ttgggagctg ctgcctcagg aggatcttga gtgttagtgg ttccctcccta	120
tcagatgtac ctaatgcca ggatttaata aaggatcatt cccattccac cacc	174

<210> 306
 <211> 464
 <212> DNA
 <213> Homo sapiens

<400> 306	
gagccccctt cctggacaca ctctgtctt tcccaggga tgggaagaaa caaaaggatg	60
atgacatgac acctaaataag tctggatctg gaagtaagtt tgatctacgg ttcattaggc	120
tggagcagaa aaaaaagaaa gggctccgta tgttcgcctg tgtgccaggt atggtgttac	180
gccactcatg tgccttatat tccctacaac cctcaccacc aatttatcac ttcaaaaatg	240

ataaaagctg	agacttggag	aaactagtaa	ctaaccaaaa	gtcacccaag	aaggaggtgg	300
caagctaaga	tcaagcccca	ctttgggtgg	agctaagagt	agcccttgg	agagtcatgg	360
ggttggttaa	ttcttgcctt	tggaacctgt	ttctatctcc	attcagttcc	tttctttcct	420
gtcagttgga	ctgtaaaactc	taagatcacg	aaatttcctt	ttat		464

<210> 307
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 307						
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tcttacagat	gcagaatctc	tgccccaacc	cagacctatg	gagttaaaac	ctacgggatt	120
tctagatgtg	cgggagtga	ggagctgggtg	gctatcagac	ctcaagggtct	ccaacaggac	180
aagatcaaga	gggattccac	tcccacagac	cactcactca	ccctaggaag	actgtgaaat	240
gcctgtcctg	gtgcttagtt	tgaattgttg	aaagaccatc	tttacggcag	aaatgctttg	300
tcattttcact	tgataagggc	cttgggtttc	aagccagttt	actcttttct	gtgagcattg	360
aaagccccct	ttttnatttg	ctccgaggca	ggattttgac	ttcaaagcca	aaataagaat	420
ttaggaagaa	aagaaagggg	gggaggaaaa	agggaagttt	ggtccaggaa	aatgaaaatg	480
c						481

<210> 308
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 308						
gggcaaacc	atgcttttatg	aagcctgatg	cttacacaat	tatgggagcc	ttctttgaaa	60
aaaaaatttc	aaaattacaa	atgcaaaatt	aggtacaaaa	gggaatattt	acaatgagaa	120
atcaccacaa	atggcaagat	ttaaacagct	gacaaattaa	acagcgcaaa	atccagg	177

<210> 309
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 309						
gttgcaagaa	agctcaagta	gcctatggag	aggatgcaag	gcttccagct	gatgccctca	60
gccaggetca	gtacgagcca	gaactagcct	accaacgaac	ctgctgatca	tgtgcataag	120
ccaccttgaa	cgtegatcct	cctgcctggt	ggagccatcc	cagctgatgc	cacatgaagc	180
agacacaagc	tgteccctact	aagctctgct	caagttggat	attcatgagt	gaaataaatg	240
actgttacta	agtaattaat	tttcgggtgg	ctgttatgta	gcagtagata	attggaacaa	300
agcttattga	cataatacat	ctatatcaca	tcctccaatc	cattttttta	agtaataaaa	360
gtgggtg						366

<210> 310
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 310						
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cataaacact	ggaatcactt	cacacgtttc	tgaaatgtga	ccacctctca	ggaggagtgg	120
acaacactga	gtaaccggaa	gggaggaaca	cttatcccac	tgaaactggg	ataaaggttg	180
ccatgaatgc	aagaggtgcc	taaatctctt	ggcatgggga	cttaatgggg	ccttatccct	240
cctgctatat	ggtagcaaaa	taagaaaata	aaaaccaaa	taatatgcgt	tc	292

<210> 311
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 311
atgaaagaaa gagaagtccc taagtagaaa ctgcaagggc caagcagaac attataccat 60
gtaaggacat catctgtccc tggactctta agcggagat catgcaaata gtggactgaa 120
gtcatcccag ccttcaaaag agccaccgtg ggggggaaat aacagaaagg gataaaaagc 180
tgtctttcgt aacccc 195

<210> 312
<211> 475
<212> DNA
<213> Homo sapiens

<400> 312
aacagttctg gaggccggaa gtctgaaagc agtatcagta ggtggaaatc agggtgccca 60
gcttctggtg gctgtgacat tccttggctt aagctgagat ggagtgcaat gagagtgact 120
gcagaaagtt tcagaaggac acatgggaat catttaacca ggccaataaa atcagctatt 180
tatacacttc ccccggaaga catagccctt gcttctactgt ctgaaggaga gaaaatgcaa 240
aagtgataaa ggcatgaaaa agtcatattc ctgagctaca agagagaaac tgaggacagt 300
ggagatgaga ataaaatccc taaagcttaa aggatgctgg atctggattc tactggatgg 360
ngngccttna aaagnggact gncctatcct tttcacatat gttagaggtc acacacaggg 420
agccccacaga ccccgacatg ccaataaacg tgtttcttgt gaccataat aaatg 475

<210> 313
<211> 425
<212> DNA
<213> Homo sapiens

<400> 313
gtctactctg tgaaaaggaa atgatcatatc ataattcacg catttgctgt acggatttaa 60
ttaaatgata gacaaaaagt agagtggcac aagtcaaact caaaaaatag taacaacaaa 120
atcaatttca aaataagcaa cagcaataaa tgttacctac tattttacga atgaaaatac 180
tgagaccaat aaaggcatta tagtatacat agccttggaa tcagaagacc aagaacatac 240
aagagaacat agccttggaa tcagaagacc aagaaacaat ttaactctgc ccctctagag 300
ctctgagAAC ttgggcaagc cttttaccct ctgtgagttt cagtttcctc atttatttaa 360
ttggaatnat aattcngat cacctgaatg taatgaaaat taaacatcct tatgtagggtg 420
aaacc 425

<210> 314
<211> 478
<212> DNA
<213> Homo sapiens

<400> 314
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ccaccatgtg gaggagaact agagcactca tgttgaacta ttaccganaa aagtaatcaa 120
cttcttttgt gttaagncac tgaaaggcaa gtgttgattt gttgcagnaa tnggggctcc 180
cttaacacac ctgtcagccg ggccaaactc tatcacagca taaataatct ttcccttaaa 240
taaatacagg taaaagaata aagtagacct aaatgcatta atatgaatat aggtcAAAG 300
caaaatgttg ggctataaat gttcagagtG ataatttttt aagttgatgn gtaatttagn 360
nccagtaaat tagaataaaa cctaaatgtc agttcaaatg gaatttttta catgttcag 420
ccctgtata atcacctccc anaaccaaca tagaaaatac ttcataataa atgttggg 478

<210> 315
<211> 325
<212> DNA
<213> Homo sapiens

<400> 315
tggaagaca ctggcctgat agaccaggag ctactccacc accagcagct acaaggcctt 60
ggcagaatgg aataacagca acaaacattg gaggaggact tgtctgggag agcagccatt 120
ttaaagaaga gcacattaag tcacaacagc tcgcagctga tctactttgc agcatcgcca 180
tacatgccta actaaatatt gaaatcccgg gaaaaactca ctgtgcatca tggtccagaa 240
actagctttg caaacagtct tttcagatgt gtacattttg tgtatttgag gcatataata 300

tatatatatttt cctccatggt caccc

<210> 316
<211> 275
<212> DNA
<213> Homo sapiens

<400> 316
acgccatctc caaatacggg cacattgggg gttagtactt caacatatga atctgaagga 60
gagacacaat tcagtcctta acacagtgtt ttatggattg tatctgcac ttccatctta 120
tcaccaccca aatccagcac ctgaattggg gagtggtgcc agtgagaggc caagagccag 180
aagagcctgc ttctgcttgc agaggatgca cagttgtaat agttcgtttt catgctgctg 240
ataaagacat acccaggact gggtaattta caatc 275

<210> 317
<211> 352
<212> DNA
<213> Homo sapiens

<400> 317
gttcgtgaat gactgtggtn tcanantgac tgccaatgnc gactcctgat accataaaaag 60
gaaagactcc tgtctgaagg atgtgccttt atcccagaca ctgacaaaaca cctttgccaa 120
gagagttcag aaacgactgc aaaccccaac ccaagcaact ggactctgga aaacagctca 180
tgaaatctca gcatctgcct tgtctggtga gcctcgtagg gcaactcacct ctattacgga 240
ggcttgatgg cagcgggcttg gtttgaactc tgtattactt atctattgct gcataagcga 300
attaccccaa agcttagccc gcttaaaaaca acacgcattt attatattca ac 352

<210> 318
<211> 243
<212> DNA
<213> Homo sapiens

<400> 318
tcacaacatg ggggtttggg ttgggttttg gatgggcaca ctnttgcccc tgggacaatg 60
ggaatggtgg ntttaccag gcnttngggg anaanangtg ggnaattcna cccctngga 120
tgctnacaaa ccntggcaaa tcttancatt tccccctnat tgaaaccggn tgccccttnc 180
cttantaact gcccttggaac ttacctcacc attttggtg gccttaaatn aagaatttgg 240
ggg 243

<210> 319
<211> 476
<212> DNA
<213> Homo sapiens

<400> 319
actcagagaa gaatggaggc agaggctgga gaggaggctg aggatgctgg acaaccctgt 60
tgagaaggaa aagccggcac acaccgcgga ctgagctctg cctgcctcac cgacttcaaa 120
gatagcaagc gaccactttt ctaggggaaa aaaactaaca ctcaagttgt gctgatttac 180
taaacaggac gctctctatt tgtgcttcca tttgctaggg gattttacatg tgaaacctcc 240
cccagtgcta atgggagtta ttatcctgct caatcccctc cgcacagagg acaggatgac 300
cgcaagtggg ataggacgct tgggctatct aataaaaagaa ctcttggaat taacacttct 360
tcanggtca cagacccatg tagcctagta tatttccaca tttccttgct attttgaaat 420
ggttcaagtc ttgagacatt tgaagngttt tcttctaagc ttaccgaggg caatgg 476

<210> 320
<211> 66
<212> DNA
<213> Homo sapiens

<400> 320
aggaatcaaa agaaggagga agaatagaat gatttggagg aaaagaagga gaaagtagag 60
gagttg 66

<210> 321
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 321
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 cctccaaact cagaagtctc tgaggagccc tgaataggag aaaatgtggc tgaaaatgaa 120
 gtggaaaatc agtgtgataa ccaaatacaag atcacgctc gctgggaccc tgtcacacta 180
 aagcttcag agcatagtcg tttttaaaat ctgtaatagt acctgg 226

<210> 322
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 322
 gaagccaagt gggaagatcc ttgctggttt ctccctctga ggaagaagga aaatgccatg 60
 actcccacta tggcctctct tggaaccata ttttgaggta ccctacttcc ttcttgagtg 120
 tcagcagagc aactgtggga ctggcatgag atttggtcat ttctaggaga gcgaatgcct 180
 tttgctctct tgatgagaaa actagacgag acattgttta gaaattcttg agctcagact 240
 ttngcattat gacaacgtgc attcaaatct gcccagcca cttgcgagct gggacctaaa 300
 gccgtgagct tctggttggt tatctataac aagcggatcc cagtacctac ctcataaggc 360
 tgntgngagg gattaaaata aaatgcatct atcagccagc ttgcaggtct gcacttaaca 420
 ggggctcang tgcaatacct tgataagttt tgatagtttg ggata 465

<210> 323
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 323
 cnaacctgnt angntnctc tnatncaant gtggcaaccn ntnccttgnc canngctgg 60
 agctgacact ttctcaactt cacctggatg gacactgaag tccaggatgg gatgctgcta 120
 cctgcagctg ccatctccct gccaatTTaa ggatgaagcc aatgcccagg atggcagagc 180
 tgagagctgg aaggaagcca ggctctcgct gacattgttg acacactgca tcagccatct 240
 ctcagcctcc cacctctaga tttcctgtga cttgggaaaa taaatttctg tatttgtaaa 300
 gct 303

<210> 324
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 324
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 actggttatt taaccaaaagc ttcatctgaa atggcatatt ttacgggata tgacgagact 120
 gctttgagga atttaagtgg accttataaa gttgataaag agccccttag aaagactggc 180
 ctagtacctc atntacttgg ttcccttagg agcctaggan cctnaanatn ttnggggacc 240
 tcaagaagag agaaattcac tcattttatg cacatntnac nggcatagtc tangggggaa 300
 tcntnggntg gggttccccg ntttnaaagn gtttttaaaa ccaanttnng gggtnttttn 360
 taaacatttc nccnaagnn cacctttaa accctttttg aacncttttt tttttttgt 420
 ntttgcgcn aatccgggn ccnnggaaa aactaaaa 458

<210> 325
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 325
 gagnnactgc tcaaacaaga acacaaaaat ntntnangat cctacnacag ngggttggnc 60
 ncagtgcacg ctntgtatac ctatcagaca aaagaaaatg tcaagcaagt anaacagaga 120

cttagctgtg acagctaaaa nattataaa gtcatgcttc ccacnaacc tatctggact 180
tatcaacagn atgcntccag cagttattcc cc 212

<210> 326
<211> 483
<212> DNA
<213> Homo sapiens

<400> 326
gtgtaggtct tgcctttcca gggataagtg gccacatagt tgcctgtgtt ccccgagtt 60
attccagtac atgttttata cttttggtat gtttgtgat cacggtgatg gtgattgctc 120
tcaacacaat gtctacttct cctcgacggt caaggaggga aatagacaga gccagaggt 180
ggccagccat ggttccctcaa gacctgccaa gaagagtga ggcaccaga gtctttgcag 240
gtataattga ttaaagatct caagatgaag tcctcctaga tttaaatacat ccacatggag 300
ctgccttcaa aggcacagct gcaggcgagg gtacatttct aaatcccang actagtggcc 360
ttgttagaaa anaanaacc gggnggacc ccngagaaag gagatgtgaa gatggaggca 420
gagactggag tgatacagct ccaagccaag gatcaccagc catttcaaga agctaggcaa 480
gaa 483

<210> 327
<211> 272
<212> DNA
<213> Homo sapiens

<400> 327
agatgcagtt ttgccatggt gccc aaactg gtctcgaact cctgagctca aagcaatttg 60
cccgccttgg cctcccaagc tggaatgaca gacgtgagcc actgcacccc gccaacattg 120
gcattctctg ctgccttctc tggactgagg aacttctctc aacaactggg ctacagccc 180
tttttccaca gagattttgt ggaatagcct ttttgtctca tgctgtctt tcatttattt 240
gcttgtttga gataaattaa aagcagaaaa tg 272

<210> 328
<211> 450
<212> DNA
<213> Homo sapiens

<400> 328
ntatgacaac aaaaccacn tggggcccaa acctggaagc cgnngctat ggaggacct 60
ggaagcangc anagaaaggt ttggagtttt cantgcatg acaccagcgt gcctgcggaa 120
gnngntgtgt ntactnttgc ctcttnccc acccaattcc gtcccaggag cccagggatg 180
gaggcccaag anacggatnc cacaggagcc agcaccact ccaccccagg agctcagcaa 240
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cctctgcact gctgtctctc tcacatggcc tgcccttccc ccagaaagag agaagaggcc 360
ctctctgggt gtcccatcaa aactccacc ttctctcacc ctctctccag ctgtatccct 420
tctctgcagc cctaacatgc attccattt 450

<210> 329
<211> 479
<212> DNA
<213> Homo sapiens

<400> 329
ggtgtgggca cacacactct ctgaacagca gaacttctgt ctgagagtag aagctgaaga 60
gcagaagaga cactatggga atcaggaaag aggaggtgat ctgggcccagc agttgaagca 120
cattgaaacg aagaagaagg ctgacttctc aggagctgcc tggatgctgg cctcctgggg 180
aactggaact ccagtttgaa ctgaaattcc ctgtatactt gtcaggaaaca tccactggac 240
tgtgggttcc ttggtacaaa aactaagtat ccccatgcct gccacagtgc ctggagcaga 300
acagacactc aaatatttaa taacgtatga ctgattgtgt attaccgcg gcacaaatag 360
aagacacaca gggggnggga ggataaattt ggggttaaaaa anaaggctaa atctgntgg 420
gntgcttcac atganaatga nagtctttcg gtttatgggt gctccccggc caaaacacc 479

<210> 330

<211> 171
 <212> DNA
 <213> Homo sapiens

<400> 330						60
gaattcatga	cactgaagct	acccaacttc	taccatgcct	ataacatgat	caccctagga	120
agtggcagag	taacccgagg	gaagaagcct	ggatacctga	atgactatat	gaaacacagn	171
tgccctaata	ccctcgatca	ctcactacgg	aactctgtaa	taaagtatat	t	

<210> 331
 <211> 251
 <212> DNA
 <213> Homo sapiens

<400> 331						60
atgctatcta	tacttatggt	aagcatcttc	agagacacca	tggatgatct	tcattctgaa	120
tcccaggaag	aattctggaa	agcaatcacc	tacctcttga	tattttctcc	gtcagatatt	180
acctaaagat	ctttttggga	cctggagaaa	aggggaaggta	gaactgattg	ataacttcta	240
tttatataga	attaaaagaa	tatgaaaagt	ttagataaag	gagcataaat	aaaaaccttc	251
tactggcaaa	c					

<210> 332
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 332						60
gttgctctgcc	aacgctaact	ggccagctct	gacaggaggt	gcgtggccca	ggaggagcca	120
tcaggccagt	tctctgggat	actgctgtgt	ctccagctct	gcagtttgct	ctgcgtcact	180
cagcggcaga	cggagaggca	gacacgagcc	ccttggtgagc	cctcctcctt	accgtcatct	240
cacaatgctc	tgaaataagg	aggcaaatgg	ctgagggtccc	ctcagttgaa	gatgtgattg	300
agttctatct	accagaagca	tatgcctcct	ggaagcctgg	ttctaacacc	tctcacaaaa	360
tccttcaagc	acttttttct	gttccaaggt	ttgcttatgg	gggacccnaa	ggaaagggct	420
tnananccct	aaagatttgc	tgagtcatat	gaggggcccag	caaacttttc	ctgtaaaggg	446
tcagataata	aacattttta	gctttg				

<210> 333
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 333						60
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ctccacccac	ctcccttcat	cacatggatt	tgttccaaac	aacttctggc	ccttcaagca	180
aggaaacact	ccttcaaaaag	atgaacactt	gccatcacta	acattgtgcc	acaggctcct	240
aagacaattt	caaattggaaa	tgcaacgaag	ttttgcta	ggtagcatca	ctgaaataag	300
tgtagtgtct	caaaagactc	ctatgtgatg	gtgaagaatt	aagtgtgtat	gtttaggcac	360
aagttttatt	tttcaaagaa	tatttcacat	tgctatttgn	cgaatgaaat	cttaagggaat	420
aaaaagngnc	ttaagttttt	ccaaattgca	aaaagggaatt	accatcttcc	cactgactcc	480
atgaatgcc	aagtcaactga	aaactaagct	taatgactgt	tgaatcaatt	tccaaagatg	498
taaaattctg	ctttaata					

<210> 334
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 334						60
gcaaaatata	tgggaaaaaac	aaaacaaaa	agtgaaccaa	gaactcaagg	gagaatcttt	120
tgagctcatt	ttctgggtga	atgcttccct	cttaccgcac	caccagaaca	gaggagcttc	180
caggaagtta	gagaattgaa	aaatagagaa	aaagaatgag	tcacaagagg	atcttatcat	240
ctgactaagt	gggagactgg	ataaaaagcct	tgtaaaatca	ttgcagctta	tatacatgtg	

tatgggttattc aagtagcatt ctattttctca aattaagcat ataccgcant tattttgtga	300
gactataaan ttctttctaga aagaaataaa gaacattaaa attct	345

<210> 335
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 335	
aggacttgct cagaacaagg gaagaagatg actatgcagc tgctcggtaa cagcgtctag	60
tcacactctg agatactgag gtcagcaaga acagaggatg cacactatgt cccatcttgc	120
ctttctgccc agaaagtctc agttactgga aaagcttcag aaatatattac caaaaaatcc	180
atttgaaatc ctgaaattct actttctcaga aaaacagtat tactcttgtc tagaaataac	240
attcaggcct caaagtgcta tactgtcatt actttctaaaa ataaactgag caaatcc	297

<210> 336
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 336	
tattgtttct aaagaaacta tgaagcaatt caaccagagg agaacaacta ctgtgggact	60
gcagatgatc ttagcctgga agctgcataa cctcctacc agatcaaadc attcagcatc	120
catcttaaat gagaaattta agtaactaaa aataataaat ataaataatt aaaat	175

<210> 337
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 337	
attcaagaga gtgccaaagg aaacaacagg acagaaggag acatgaggaa gagatgggac	60
agacagcact caaccctgag cagacgtgag gggcaaaaga aaaggcaaca ttaaggaccc	120
attcaagttt caagtctcag cgtcccagag gatggtgagg atacagcaaa aatggagagt	180
gcaaaaggag aaaggcagtt gaatgtgaag ataacggggt cttcggggcc tacctactaa	240
gtctggtggg ataaccctgt taaatgggaa gagggaggcc tttcttggtta cattttagga	300
ggaaaaaaat ggctgcctgg aaagtccata taccagcagc aaaaagaaaa gcnnaatggg	360
attaaaaaat nttaaaaagcc cttcacnagg aggttaagtt ntggcgggtg tgcccatcag	420
agaccagcag agacaactgg ctctccggcc tgagtccgcc tacatcagaa ctagcacatc	480
tctctgtcta atttct	496

<210> 338
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 338	
gtggtcaaat gtgtgggagt aaaatgtgtg tttgaaatgc cttcccagga ctgagtatgg	60
ctcatttttc tccttgccat gagctgcatg tccccatgat tcggggcagc ccgcctaggt	120
gcctgttcct ggctatcaga agagcacagt gaagtcctcc tgcccctgag aagatcgaag	180
actctgctgt ggtcaagggt cttctccag ccatatgtgt tgtctaggat tagacttttc	240
aaacagtggc caggccttct gaggtcacat gtagcagtaa aagcaagctg tggccaaaaa	300
aaaaaaggnc ngnggggncn attnannttg gacttaancn gggngnactt nntnaaaagg	360
gggggactcc c	371

<210> 339
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 339	
actgaggatc ttctgaattg gcggcctcta catatgcttc tgctaaggag catgtattca	60

ctcaacaagc	atthttaaacc	cccagcaagg	cacaagctac	aagggtttaca	agagacacaa	120
gaagagatga	ggtggctcct	gcttcccaaa	gagtgtgggc	cagggaagg	aataggcctg	180
gactttctcat	aacctggaac	atcttttctc	gaggccaaag	aggtgatccc	aagtgaagg	240
ccaaatccaa	ggacctgcc	tgcccgatgg	gtgctcctct	gctgagcagc	caaaggcagt	300
gccacgaggc	ttcatctacc	tccaatagtc	acggagtctc	tccatgtgcc	nnttgggttt	360
nntgcnttgt	tttcccagga	aagccttnct	tgacctttca	gatcaagtc	catccacgta	420
ccatgaacat	tcacaccctg	tacctctctt	ttcacagcac	ttatcccaag	agaaactcc	479

<210> 340
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 340						
cagagtgtgg	gaccaaggac	aaattacaga	agcacagcag	agaaggttgc	ccggttcccc	60
gtttgcctat	gaagttatgt	agtgaagcaa	taagaggaca	ctggagcaca	gcgctgctta	120
gagccgaggc	tcagtaaact	tttgttctact	gatgaatgaa	tgtattaagc	tgaccagctc	180
aattttgattc	ataaagaaat	agccttaggg	cttttctgag	gaagaacaca	acatactttc	240
aatccaactt	tttaaaaaat	aaaacatgat	tacacactcc	taaataaata	ttttcagaaa	300
gtttgcctat	atgtcaaaga	tttctaggat	ttggaagcca	gtatgttcgc	aagttgtgag	360
gacatctgng	ttattctcaa	cacttctctg	gcaaaacnan	ngngtctcta	cctgaaagcc	420
tgaacaata	taaaatgcaa	agctgacatc	ccccctgctc	ggcaactgca	ctttcaccca	480
g						481

<210> 341
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 341						
aaggaaagat	ggaaaagagg	agttatcatt	tctttctcaa	gatactggcc	ccatgagcct	60
cagtgtagcc	ctagttcctg	ggatcagcac	caacaggcag	ggaggagagg	ctctggcgcc	120
ctgcagacag	caccagggttc	ttggcatcag	gagctggata	cagagtcctc	gataatccca	180
gccacagaat	atttcaaact	caccgacatg	tcctctaaat	atcagatatg	aaaaggcttc	240
cactcttgca	cctgtcttgc	tattatttta	cagatgtgtt	ctaaaagcta	taaagacgga	300
aatcac						306

<210> 342
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 342						
ataatacaga	catgtacccc	accacacaca	atgtaaactg	caaaagcaaa	aaaccgagat	60
gcctcgctcca	cagttcaacc	ctctgcgaac	agagccatcc	tgataaaaag	ggctgctgtc	120
atgattgcca	taaactgagt	ggcctgaaac	aacagagtca	gaaatcaagg	catctgcagg	180
gccatgctgt	ctccgaaggc	tcggaatatg	gaccctctct	tgctctctcc	tagactctgg	240
gcaggctgca	gatccagaaa	gccgaagctg	cagcaagctg	gaaggcgctc	cgcaggagga	300
gttcttctct	caggagactg	cagtctttgc	tcttacggnc	tttgaaaaan	atggnatnaa	360
ncccccaacn	ctatggaggg	taaccgcctg	cattcaaagt	ctacagattt	aactattaat	420
catatctaaa	aaacagcctc	acagaaacac	cagactgggtg	tttgaacaaa	a	471

<210> 343
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 343						
catgtctttt	cagctcttct	caccaagaat	tggagtctat	tttctcaact	cattaaatct	60
gagctggctg	tgtgacttgc	tttgcccaaa	aagacttttag	caaataagat	ataagcacaa	120
gcagagggtt	gaaaagtgtt	ggttcgctgg	ggcttactgt	attactgctc	ttgaaatgct	180
gagatgacca	tgtgaatgaa	tccaaggaag	cctcctggaa	gatgagaatg	ctgcatagaa	240

gaaaacagag	gtctccagct	gacagcctgc	caaacactag	aaatgtgaat	gaggccattc	300
tggatcatct	tgtcaccagc	tgacctccca	gctgactatc	agtgcattag	caaaccaga	360
aaagatgagc	tgagccagtc	cagtgtaaaa	aaaatggccc	agccanccca	cagaataatg	420
agctgaataa	aanggttggt	ttaagccaaa	aaaaaaaaag	gcc		463

<210> 344
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 344						
gagtggagc	agcctgaggc	cctcatccaa	tgcatagtc	tgtgccgtgc	gtcttgtcca	60
gcctgcagaa	ccatgagcca	aataaacctc	ttttcactac	ccaaaaaaaa	aaaggnccgn	120
gnggccaatt	cagnttggac	ttaaccagg				149

<210> 345
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 345						
tatatgaaga	aatctggcct	cccacagaga	cggatttggg	aacaagagga	ctacacagac	60
cctctgacag	tctcttgggg	gacacaatgg	cttgccaagg	gacccctgat	acacacttcg	120
agaaccactt	gcatagacca	tcaccatcat	cctggaaggt	tttttcaaaa	aagaccacta	180
ctctnacttt	cttnaanaat	aacattgcct	tttcttgatc	ttnatggatg	gggaatcatn	240
antgacntgc	tnntttgaaa	taaaggacnt	ttgaaaatan	aaacntggac	ctatgaanat	300
atnaatcgga	tgaagattct	gaagngccct	gatgntacta	tttatgggnt	gnttaaatat	360
tccaacttaa	tggaaggcc	ctnggggggg	gatttggcca	cccttg		407

<210> 346
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 346						
gatgctgtct	tctgatgaaa	acagaatcan	gaatgagtga	aacatggaag	tttgaaaaga	60
gtgaacatca	acactggaaa	ctcaagagtg	tgtaaacacag	agaaaattaa	tagaaaccag	120
gaaacactta	aggtntatct	gaagtttggt	gtcttgaatt	gatgtattaa	ttactcttg	180
aatcaattta	ctgtatttgg	tgaaccagc	tttcagtggg	gttcttctta	attttcgcct	240
actgttctac	ttgttccaaa	tggtgtgtatc	atgtatcttt	tcttttagat	ttttctacct	300
aattagcttt	gattctgtca	tcaggattga	ttttggctaa	aataaaacac	atatatgtct	360
ttt						363

<210> 347
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 347						
gacttgtctgt	gctcagatcc	tccattcaag	agagctacag	acacgggggt	gctgggtgagc	60
aggagccgag	accatctggg	gtgggaccga	ccaagagttt	gaggtgtcca	gggggtgacn	120
gtgaagatga	cctatcgag	aggggtccct	ctcattcacg	ctctgaagtc	tgacacagggg	180
caggggctac	cgtgtcccat	tcagtttggc	ctctgttgta	tcagccagag	gccagcagaa	240
ctctatggtc	actccccgt	gtcacggaca	atttgccacc	tccaccggca	gcccagggct	300
ctgcctgaat	attctcgcc	gatcgtagga	ttgtggggag	ggatattctc	attgatctct	360
aaagaaaata	ttggtcgctt	ttt				383

<210> 348
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 348
gatgatcatt cttgaaacca gatcccatat caagagaaag tcaagtaatc atgaagagag 60
gccacatgaa ggtgttctgg ccagcagtgc cagctgaatc tcagttgcaa gccagcatga 120
ccaccagaca gggaagtggag caaaccttca acggaggcaa gcccagcct tcaaaccacc 180
ccagccgatg catggggcaa ggacgagcca cactggcaa atgtgcccac actgcagggt 240
caggaggaaa ataatgatg gtggtgttct cagtcattaa gttttatggt ggtttttaag 300
gcaaccaaag acaactaaga acatttactc tggccaataa aaaaatgaat gaaagtgatg 360
tgtcaattcc atgtggaaag ngttcattcg ccagtagtta agacattgga agcaagcttt 420
tccttcttgg tgcaccaatt angaaaagaa gtggtgttgg gggatgtgcc ctcttcat 479

<210> 349
<211> 614
<212> DNA
<213> Homo sapiens

<400> 349
cagaaactga gcccaggctc taccgacctt taaactacaa cagagctttt naggagaaat 60
gcggaagaga cggcntttcc accccgggac cttaccagaa aaccgcaca cccagncac 120
aattggcttc cttcattcaa gccnagaaaa agggactccn acttttcacc accaggggan 180
gccccctttt cttggtggct tgggccaant tgcaaaaagg cctngtttca ttgggcattn 240
ccacaagggt ngggggggaa nttgggnccc ccaacccttc ctttcttang cacctttnan 300
aagnggttnc cttnttgttg ggcaagnaac aaccaattg gcnttaaggg ttttcttctt 360
ttttncaaa cttnccttgt ttngggtctt ggggcnnaag gtggnaccgg aatcaattct 420
tttccacttt gccatttaaa ttnaagtnaa gttcaacccc ngaaacaatt tccttaatac 480
cttggggccc cccccaatt tncctttttt aaaanaaacc aaagtttggg cctntcccc 540
ccacttgggg aaatttattt tctaaaatat tngggaacnt tagaaattaa aaanttggaa 600
gaaactttgg cccc 614

<210> 350
<211> 380
<212> DNA
<213> Homo sapiens

<400> 350
ataacatgtt tcaaagtggc aaatttcccc taagaattgg aaaaatggat aatacggatt 60
ggggttggag agcccgggat tctgattaaa catggaatct gagaactggc agaaagcctg 120
gaactgatgg aagagagggc tctagggcct ccatactaaa tggatgaacta ggaactataa 180
aagagataat gtggtgaaga gcttcagcca tcaagttatt ctaaaaatga agtagggcat 240
tttatatgtg gagagaaggg cactgattat tatctgacta ttgctaatat gtcccataga 300
acttatttgg aataattttt tactattaat ttgaacaaca gcagtggagac tcttttatatg 360
tataataaag ctaattttac 380

<210> 351
<211> 373
<212> DNA
<213> Homo sapiens

<400> 351
gtcagatttc ctgcaaggag gatctacagg ggcccagcac taccttgaag gccgtgaaca . 60
gccacagagg gaaagccgcc ttgagtatgg agcaagactt cctcagacag gtctcatttg 120
tgtcttccct tccagcagga ggaagacagc acctgccag agtagtttta gagggcactg 180
cactaaagaa ggagaactgc aggggaagat cgtgccttaa tggatgaaac atttcccaa 240
tggcctggct atctggagag atgaggactt gctcattagt agaagtttcc aggcaaagcc 300
tgataagca ttgctgcag ggggtgggga aggtgaaggt tganangana nctctaagat 360
ttctttgcct tgg 373

<210> 352
<211> 405
<212> DNA
<213> Homo sapiens

<400> 352

gctataaaga	cgccttgaat	cctcctccac	gatacccgcc	ccactatttg	ttggcacagc	60
tacgatgctg	cttatggatt	gttttctact	ctaaagacag	tggcgcaagg	caaggtgacc	120
tggagcgagg	ccatcctgag	tgcccaccca	gcgtcccagg	agcctgttgg	aatttgggaag	180
gacatttgcc	tctgtttata	aagactggct	ttttgctgaa	agccagggtc	tcaaaaattt	240
tgttttatta	atagaagcta	aaccccaaac	atttggtctt	ttttcattcc	atttccccct	300
tcacaatctt	aactattccc	aagacaatgg	atacctctgc	ctgtatcaag	ggcngattgt	360
caataanaaa	gtcaacagga	aataaacntt	ntttttttca	aaatt		405

<210> 353
 <211> 464
 <212> DNA
 <213> Homo sapiens

<400> 353						
ctgattttaag	ttanttccng	gggnccnaaa	cctngnaaag	gttttttnatt	agggcagcaa	60
agggaaaccg	ggaaccactg	angaggagca	gcagaaaact	tcacagcttc	tttgggtggg	120
cagcagactt	cagatttact	ggaagccaag	aaaggggaag	acagcagcag	gagggcttga	180
ccagctagct	aaataagtta	agccatggaa	agaagcagaa	gaaggaagct	caagaaatct	240
cagcaacaaa	cactcatgga	cttttttcta	aaaatggaaa	tttaaaactt	tctcgaccat	300
gacccacaag	aaatacattt	tacacgttgc	atccaggaca	tagcaatatg	cctgtgagcc	360
actttgtggg	tgaagggttt	ncatgggtgag	cttgttttaag	ggaacatggc	cccnggggt	420
ntcctttttg	gagattcccc	ctggattttac	tggatcaaag	tctt		464

<210> 354
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 354						
ggaaatgcca	caagactatg	gccgtgcaac	atttccgcag	tgctcctcgc	tacaaagaca	60
ttcccctaag	gctgggtggg	aactcaacac	tcagctcagt	acgtgggtcag	ctcgtcctcc	120
ataggagcct	tatgccttgg	tgaggagatc	tctgaagaaa	ttgctgatga	aagtccaaca	180
ggctctttcca	gtttgtctgg	tgggtcacat	ttgctgaaac	ctggaggaat	tgtagtgga	240
agctcaacag	gcctgactca	gtctgactgt	ccattcttct	ggaagctgca	gagaaaagaa	300
acctggaaac	cctatatgct	gacaaaaagg	gacacaattg	gatatgatgg	ttattttacc	360
aaggttttga	aatgtcgtgc	tttcaaatat	aaacagactg	ctttaangga	tcnaaaagtg	420
cctttttaag	ccaataaaa	g	cctgc			446

<210> 355
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 355						
cagcccagac	gtggtcaaca	agaacactga	gcagaaaaac	aaccttgagg	atgaaaacag	60
ggatgtttct	agttgaagcc	cacactagaa	gagctattta	aacagcacca	aagtgtctgg	120
attacaggtg	tgaaccgctg	tgcttgaccc	agtgtttcta	aaatatctac	aaaaacagtt	180
tggagttagt	cctaggcaat	gctttgctgg	aaatgggatg	tgtgatggac	cattctaagg	240
gagctgaact	ggctgctgtg	aagacatcag	gaacccaagt	gagactgtgg	tacgtaagtc	300
aggaagaagg	cacttgacct	gttttgaaaa	catgtcctgg	ggatggntag	tgccnncagt	360
tcacaaaaaa	agcaagctgc	cttgttaggg	nanggannc	accanttgaa	aacacctcca	420
ntactgccan	tanaaacagt	tgattt				446

<210> 356
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 356						
aggctgagaa	gtccaagatc	gagggatctg	gcagcagatg	agggcctttt	tggtgcacca	60
gcccgtggca	gaggggtgg	gggcaagagg	acaagaaaga	ataataaatc	aaacttacag	120
cctcaagctc	ttttataacc	agcatcaatc	cattcatgag	gatggaacac	tcatgacct	180

aacacctccc	tttaggctcc	accttccaac	atttggtaaa	ttggggatta	agtttctaac	240
acatgatttt	gggcgggata	cattcagatc	agaccaaag	ggcaaaggga	ttttgtatac	300
acagagaaga	agttgatgtg	aagatggagc	agagagccgt	ttgaagatgc	tagccttgcg	360
actggagtca	tatggctaca	atccaatgga	tgctggtaac	cnccaaaana	tggangnggc	420
ccggacnaaa	attcncnct	ggaacctcca				450

<210> 357
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 357						
gtccttccag	aagagcactc	cccatcaacc	cgcgggcagc	tgaattccca	cctcagactc	60
tgctccaagg	gcgccgtgtc	tacggaggcg	acgctgagga	tggcttatca	ggttgggtca	120
ctcaccacac	cacgaggacc	tgaccttaaa	ttctcggtgc	atcctaagtg	tgaccagag	180
accgcctgcg	tcagaagcac	ctagaatgct	gtggaagcac	cttcaatgca	gattcctggg	240
cccaaccctg	gttccactga	atcggggtca	gctgggtggg	ccaggaattg	gcattttcaa	300
cagcttccaa	ttgtacacca	gaatactcaa	gcttggtgact	ccctgctca	ctgntttctt	360
catcctttct	cacttcctgc	tgagtacata	tnatntttac	tacttttaaa	aganactttt	420
accaataaag	gccggcnttg	aaggggaaaa	aaaaaagcca			460

<210> 358
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 358						
gaccgcaatg	ctcctacgat	gatcctgtaa	cagaggatc	ggacaccaac	cntgggannc	60
ctccttcaaa	ttatgggaca	tcaccaacaa	tcaatcacta	agagaagaaa	taatttagaa	120
gaagaattca	tttttggtta	ctcaaatata	acccaattta	aaggagactg	ttatttctct	180
tctctagtaa	gctacagaca	ggatctgctc	cctttaataa	gatgcttggt	taataacatt	240
tatttacaga	gtaaaatttt	ctctttattt	ccctccacac	taaaatattt	acataaactc	300
aaaccactta	tggtgcctat	tccaaccagt	ttcttgctcag	agtgagtagg	aaaattcttc	360
attaaatgtc	attgcctttg	gggnaaacag	aacataaatt	aaaaaccccg	ctttatttta	419

<210> 359
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 359						
gccaagagat	gcaaaggatt	aatcatgaac	ccagttgccc	agaggtggaa	aaaaaaaaatc	60
tggttggtga	gactgaagaa	gcnagaagtt	atatgaacac	caagaggccg	gcaacatgag	120
tgtggcctga	gtctgacgcc	ttcgcccacc	ctcttcagaa	tcacctgac	cgaaagaagt	180
tacgaaaata	gtcnaaatc	tgggcctgcc	tggaagagac	ataaagattc	atttacatgg	240
gaaggtgact	gctctgaata	tccacagacg	acgaatctat	gctaattggt	cagtctccca	300
caaattctggg	atttatataa	ctggctccta	cccttggttc	ttgccagcag	aaatgcttga	360
attatcttaa	ttccagaatg	naaattattc	ccattctgan	ggcntcattt	ttaagctggc	420
aaagngcatt	tttttnacag	gctaataaaa	aaatt			455

<210> 360
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 360						
atgatgtcag	aagtgggggtg	caaagtanag	gcttctgaca	acccccggga	gtactgagtg	60
aacaagcaag	gtatctgcag	aaccacttg	tgtccaccga	tctctcagag	tgccctggaga	120
tcatggacaa	cagaatgcag	tgtgagggat	gtcaagtcac	ctgggaacaa	cactttctta	180
agaattcacc	tcaatttctg	cgtttttttg	aaaggtcctt	aattgtttgc	tgccctctgca	240
agctagacat	ctctttcagc	aaatggagac	ccagatgggtg	aggcaagaga	aggaatgacc	300
aaattaatga	aaatgttctt	tcagcttggt	attgagcttg	ntattctcct	gaatgcttgc	360

tctgcgactg ntatgctaac tgaccctgtg ggtaaaanga gaaaggaata tctcntttgg	420
ttaattttaa aaatantaat aattgacaaa aaaaaaaggc ccccg	465

<210> 361
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 361		
gctgtaggat gacgcatgat gcaagtctga agttgtatgt ggccatcttt gccaccacat	60	
tcagaaagct tacctgagaa tgaagtcaac actggagaga aagagaaaga aagagggaga	120	
acatatcaga atctctccac aatggcaaca aagatgggtca ctagcaagtc caagcctcca	180	
ttctctttaa aacttgcaat ccttgaggac aaagaaaaac gatctttttt tccaatatct	240	
atgttacttc taaaagaagg nattaaggaa agcctgnatg aaatttcatt catnantcaa	300	
gaccatactg gccttgaata aaatttataa gc	332	

<210> 362
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 362		
ggagatcggg tggaagaca gtggactgat ccaagagccc agtcttgatc agcccagact	60	
gaggggacct taagagatgg gaagactgac atttacaact tccccactg gccgtgatga	120	
tcttaagtac agccactgag gaagccaact taagaatctc ttctgaccc tgctcagaat	180	
tctatcatcc ttcttctctgc cccaaataaa attcccactt ccacaaaaaa aaaaggccan	240	
cgnggccaat tcagcttgga cttaaccagg ntgaacttgt tcaaaagggg ggg	293	

<210> 363
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 363		
ttgtgcgtca ctgcaagact gcatggtaat gaagccaagg cactgtgggc caaaactctg	60	
ctgctgtga gaagagaagg gacagcggct tggagagaca gaacggcaaa accgctgctg	120	
ctgctgcttc tgcttctgct gctgctgctg ctgctgctgc ntttgagct gattgagaca	180	
ctatgttgag tctacaggat tctgtgtttt ttgaaattag cataaagtc ttgttaaagt	240	
cctggagcag cagctgaagc caagtaggct gccaggcag tcagaagaac agagcagggtg	300	
aagctgcaca gcatgcagt gtgtgtcttc ttttggggcc aagcctgat caacttacta	360	
tttgccaacc cccggtcatc ttcttctga gtaaattgcn ccactatct atgagtgatt	420	
caagtaaaaa tgctcttcag cgccagtcag caaagtaaat aatatca	466	

<210> 364
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 364		
tcacgaacaa tctggatttc atgtcacaag aggaaacaga gtcactactt caagtactgc	60	
accaatcaag tctgttctgg taataatgtg aggcattgct caagacctcg atacatgaaa	120	
gcaattactg cagatgcctg gctgttggca ctgttcagct ttaatgtagc agtacagaaa	180	
gttatgcctt ccacctgtga tgactgatcc tagaacctgc agacaatgag tctaagctga	240	
atacaaaaaa taattatcca agtaaagagc ccttgttcaa ttc	283	

<210> 365
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 365		
aaatgaagat ggcattatga aaggcgattc ttatactcag aaggaaaagt tcccatggaa	60	

gccatggatt	cattcatgac	aaagtgggtg	gcctgtttgt	ttgcttgaga	ttggcaaaaa	120
tccaaaatgt	ctgtgcacac	tgctgggtgag	gctatggtaa	aacaattaca	tatttctggt	180
tggtgtgtcc	ttgtgaagtg	aaatttggca	gtaagtaaca	aaattactca	tgcatttccc	240
acggatcagc	atctccactt	gacataaaat	aaatgctaga	gatacacatc	tacaggatg	300
aactacaagt	tctgtagtat	acaaggatac	aggtaattta	ttctgttgtc	tatgatggca	360
taaacagctt	aaagtgcctt	ttaataaggg	gcctgggttt	gttaaag		407

<210> 366
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 366						
agcatgctgg	acagcctgga	gctggagccc	acctacaacc	ccttgcatgt	tcaaagccac	60
ctgtactcac	acctgagcag	catctatgcc	aagcctcagg	ggcggtcca	cccacactgg	120
gagagccgag	ctccgagaaa	gcatccctgc	aagactgggc	agttgcagac	caaccgagct	180
cgagctactg	tgccccccct	gcctatgact	cctgtcccag	gcagagcctc	caagatgccca	240
gcagccagca	aatcttcttc	agatgccttc	ttcctgcctt	cagagtggga	gaaggatccc	300
tcaaggccct	aagtcaccag	caccagagcc	cagctgcccc	gcttaaccat	attcatgctc	360
aggttcacat	aatgggctat	ttgnggtcaa	gacttgcttt	ttttccccc	ggganccttt	420
tntgngggag	ggnnttnattg	ggaaaaanaaa	nagcctttcc	ttgtcc		466

<210> 367
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 367						
ccattcccaa	atgcgttacg	taggtggaag	ctgggtgagt	gtcaggaaac	taaactctgc	60
aaaataagat	gacaccctct	tggaagattc	ggaaaagtgt	atcagacttc	aagagccagc	120
tcagctacta	cttcaagcta	acctttcttg	agacctcccc	tttacctgct	ttcatctgtg	180
ctgcccgttg	acttaactga	atcacctagt	ggactgaatc	tggccaaact	ccaggggccac	240
ctatcatgag	cagccttggt	tgctggcaat	ttgcagagtt	gcaaggggta	aaggactggc	300
tttgactatt	cagtctttca	gttcatcaca	tcttgccctg	atgactgcag	tggccactaa	360
gctggtcaca	gagtgcgctt	tcttaaatgc	aagtgtnaag	gatngnnaaa	ccctcaaggg	420
gctttnantt	tttccaaggg	ccctgtncct	tggaggggca	taccattgaa	gggta	475

<210> 368
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 368						
ggctgggacg	atgaaatgtg	atgggctggg	aaactcaagc	cngccccag	gtgggaatca	60
ataaagggga	ncgggtggtc	tttggcttat	tggtntggcc	caagcctggg	tcttcaaaac	120
ctggggccctg	gaaatcaaat	ggctttccca	ccctcaagct	tggcccagaa	gggaaaccgg	180
ggggaattac	caggggccctt	gaanccact	ggcaggccca	gcccaggtn	tggttaattt	240
tttaaatggg	aaaaattctt	taantaaaaa	caaacctcaa	gggaagctct	ctttgtcn	300
ttttaaaaa	ccatttttna	aactttcttg	cttaaatccg	ggaagnngta	atatttcaag	360
nggcaaactt	ttggaattct	tgtggcctcn	cttgggggaat	gccaatcc	ttcaagcct	420
tgggcnccca	aaaataaaag	gtcttccgc	ttgattattt	aaaacc		466

<210> 369
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 369						
aagccaaaaga	ttttgcagaa	tcaaggatgg	atggagtatc	aaaataagga	acggaaaaaa	60
ctgaagatat	actaaggatt	aaggcccagg	ttcatctagt	gtccccaggt	gccaggcatt	120
gtgctgtgac	tgtgatgtga	aaaaagaggc	caggacaact	gggtctcatt	cagtcagact	180
ggagtgcagt	ggtgtgatca	cagctcatgc	agccttgacc	ttccagactc	aaacaatcct	240

ttcatgtagc	tgggaccaca	ggtgcatgcc	accatgatca	gtttatTTTT	aaatTTTTtg	300
tagtgagcca	ttgagtccag	cataatcctt	ctaatttagt	tccttatctg	aaaagcgagg	360
acattgtgac	aatgatctca	gaacactggt	gngaaaaanta	aantctnaan	ataaagggtg	420
ggggcccaaa	aggctttaat	tgggaagtgg	cttaancat	aaaaaaaaa	gggta	475

<210> 370
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 370						
ccctgaagga	ggtgctccag	cggcctgctc	cgctcctgtcg	gaggcttcct	gaaggcctgt	60
gttctcacct	gcccttagtg	gaaaccttct	attcatctga	tctatTTTTt	tgtgggtgtc	120
aggggccaca	tgtctccatc	tccctttcca	gtcctaagat	atctgttatg	ggctgcattg	180
tatctccaca	aaattcatat	gttgaagctg	atatgatttg	gacctgtgtt	cctgccccaa	240
tcccatgtca	aacgccatgt	gatgtgtgtc	ttccctttgc	cttctgcatg	attgaaagtt	300
tcctgaggcc	tccccagaac	caagaagatg	ccgcatgctt	cctgacagtc	ttcaaaacga	360
tgtgtcaatt	aaatctcttc	tctttac				387

<210> 371
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 371						
gctggagtgc	cgnggcacga	tcttaactta	ntngnacnt	tngentccng	ggttnaacca	60
nttttctgt	ctcagcttcc	ccagtagctg	gggattacag	cgccctctgg	taggcattgc	120
agagagaaga	atgcaaatta	aataagaaaa	gccctctgcc	cttcaggagc	ttttggtgaa	180
gatctctttt	ttaaaaagct	gcaagactgc	tgcccgaagt	gggacacaca	acctaaataa	240
gggcgagaa	cggcaaggac	ggcccagcca	cgtggaaccg	cctcgcaact	ttggcgagca	300
acttgagatc	ttctagagac	ccaggagtat	gttgcttcta	cctcagactg	gggagagggg	360
agcttcccca	aaccattggn	gggagatgaa	natntcaacc	anccgaattc	ctgttcacga	420
ccaacctggt	gtgagctctt	ctgggggatc	aacaatgggt	ga		462

<210> 372
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 372						
ttttctntat	gaaaactact	nntcacantc	nnantccttt	nangttaaaa	antnaaaggg	60
naggccagnc	ccgggggttc	accntgtan	tcccagcact	ttggaaggcc	aaagcaggtg	120
gatcactgga	ggctactttt	tgttcttcca	atgcctattc	attcgtctcc	tctactcccc	180
gcttccccct	ccttcataca	ccaactcaga	gttcgaggca	cctgcccatt	tccttccaaa	240
taaaactgta	aagaggttac	aat				263

<210> 373
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 373						
gaagtcaagt	tgattacttg	gcacagccc	ttcatcacag	atactactga	aataaaaaaac	60
caagggaatg	tgaaaaaaac	ggaaggacac	tgaagcccg	gggaaataa	tgaagtataa	120
gtgcttcaga	gagcagcaag	aaatggaata	atatttcttc	tgtgaggacc	tcagtaataa	180
caacccatga	gtgatgggac	ttattgcaaa	tggcaagagt	gctgttgagg		230

<210> 374
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 374
ncatngtnng ggagttgntg naaccactgn ctgactcttc atancaccnc gcttttncct 60
tggtcctcna cactgggtgg ggagccctac nttccatgaa gncttggcaa acnggggtgga 120
tcggnntctg cntatcacag ccatacaatg actcttcagg aggaaatacc agcctagacc 180
gtctcagggc ttaccaaaacn gtgacnatag gtgaggtgna gccagactag actnacacca 240
nttcggnatg atctgacgga anggccggca gaccctatat cctcagatgt gtccccatcc 300
acctggcaca tgtctggaac ttncattac agagggggg 338

<210> 375
<211> 412
<212> DNA
<213> Homo sapiens

<400> 375
caacctcgaa aatgtccaac tgcaaagacc catgtctaca aattgctgtc agccagagga 60
atggctgtaa cttccttggg gccgaggact ccctgctcag ttcctactta cagtatctga 120
gtcacttaac taaatgcaat cgccccagct gcaggcacca ctgctcgggc cactataaga 180
accagccctt gagcttccgg acaggaaaca gcatctgcat ttccagactg tagcagctca 240
tcatgccagg ctccacaggc aagaatcaag cagatggaag ctacagagga aacaaacagg 300
gttccctgaa atcagcagct ggggagaatt tatcttaciaa ggggtggaatt cttgattctt 360
tcattacatg tcctcttgca gcagcagcaa aagtaataaa aaataagagc cc 412

<210> 376
<211> 416
<212> DNA
<213> Homo sapiens

<400> 376
ctcagggccc taggggagtc acaaaagatg aggacacgtg aagactacag ctgcaggcct 60
agaagactct ctcaagaaca actgtcttgg attcccacag ctttcccctt tctgtgtgca 120
ccactcagga ctccctaccc tgccccacaa gcctgcagat tctgagatga cctggaagga 180
acggaacagg aaggcgtgag ctttggcacc agtttaacgt agaactgtac gggccaaaca 240
cagggccctt gattatagaa aaaaataggc ccattgtctt ggtgggtgga accaaagcat 300
agcagcatct aagaaaccag tttctttgtg tccagtgatg agggcttagc cctaaaatat 360
tanggtgggg agggaggagg ggtgaaanng naaacatact ttaataaaat agatta 416

<210> 377
<211> 253
<212> DNA
<213> Homo sapiens

<400> 377
tcaacagtca taactttttg aggacacatg tttattgctg ctgctggggg cagctgctct 60
tgtaccact ttcaaattggg ctgtggaaga gacaaagctc atctggctgc tggggcagtg 120
gcatcctcat gcaagctggg ctactggtgg ctgccctgt gacctgcttc tgaatggcca 180
ggcaggaaaa gtctcccact gtgttgcat taaagaaaag aaaaagatga attaagtaaa 240
aagctctgca aac 253

<210> 378
<211> 303
<212> DNA
<213> Homo sapiens

<400> 378
gctgaaatga accaacaatca gcagaggccg cggcagagtg agagagctgc ccatgctggg 60
agaagccctg gtctttgtct ccacaaatgc tgaaactgac agtgtttctc ccagagtcca 120
agtctccatt agccaagcca agagcagagg aaatgttctc cactggagga aagaagaact 180
gtcgacacca gaaaatttcc tgctggaatt ctgccaaaga atagctggcc gtcctagggg 240
ggtccatcat tacggaactt tgctgtttgt aaatttaata aacgactcac atctgcttat 300
aat 303

<210> 379

<211> 382
 <212> DNA
 <213> Homo sapiens

<400> 379
 gtgtggagca gagaaaaggc tataccact gatgaacagg gatccacacc tggggaagaa 60
 gcaagtatga ctttctctcc tgtggcttta cacaacctcc ttgaaattcc aagagcaacc 120
 ctcccagcta aagtcttctc agatgtgaca cgatctgcac aagcagaggc ggcacagggt 180
 ttggcttcca gttgggaaat gaagctccaa gggcagccct actatggcgg gctgtgtgac 240
 ctgggccaag ccccttgaca tctccagact cggcttccac atctgccacc accaggacac 300
 tggattgaat gttgggtacg ttgtaaggca agggagacac agaagtccta aaggcaataa 360
 agcttttccc cactgcccct cc 382

<210> 380
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 380
 agactgggtc tcactacatt ggccaggccg gatttgaatt cctgggctca gcctcccagag 60
 tagctgggac tacaagcatg taccaccatg cccagtttcc tgcagcagtt tttataaacc 120
 aaattttcca aattagaaaag actgacccaaa gaagcacttt tatacgagga ataacttacg 180
 tatggagaat ctcaacttgg accagtcaag accaactcca gcgatgaagc cagaatgtaa 240
 tatacttcaa aaggctaaag aagtccattt tcccagatgt aaattataat taaaaaatag 300
 tgagccaaac tctaatatcc caatgtgata atctttcaaa taaaaatatg ggctgtagtt 360
 cagg 364

<210> 381
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 381
 aaatgttaag ggagtttaac ttctacaagt ccagtcattg gctttcacia agggccaaga 60
 aaggagtccc aaagctcgcc atgactcaac aggaagctct ttgtgtcttc ctttctacac 120
 catgtctgac aaagaagctg tcttaagttc atgggectct gtctcttgcg tgaattctga 180
 agtcagtga gcaacaatga tgtcattgct tctgaagacc actgttggt gagataatga 240
 agatctcttc acccaaaaaca ttgccatttc tgcagcatac atttctacc ctttcaaata 300
 caaaagtatt ctaccgat 318

<210> 382
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 382
 ccagcagaca tcaaggactt ctgaggagcc tgggtaccttg cataggcact atggaccctg 60
 ttttgcttaa cccaccaaac agccaatttt agcagacatc ctagttttgc aggtgagaag 120
 agctgaggta cgaagaagtt ttgttaattt ttccagttca cgtaacaagt aaatgggaaa 180
 ccaggatgaa aatcaaggtt tatctgtcgt cagactgtta ctcataatca ccattcggag 240
 agttcanatg tgggacaaga ttctaactcc nnccttctcc caaatgggta atntgccagg 300
 tgccttanag ctacatattg tcttatttgt gtgatnnact gannctgnct gaatnttana 360
 agccttgat cttntgnant nncaaanaca naagagnccg nggggnntat ttaaattnga 420
 antnaaccgg cctgannngc cnaaaanggn ggggcttccc agg 463

<210> 383
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 383
 gtgggggtctt tcagtgagga cactcaagca gctctgtgga gaggaaccat cttgccagct 60

ccaacatgcc	agccatgtga	acaagcccag	gtggcaaate	acccagcctc	agtcaagctt	120
tcagatgacc	acagccccag	ttgatattctg	actgtaacca	catgaaacac	caaactctgg	180
actcacagaa	atcatgagat	aataaacaat	gattgttttg			220

<210> 384
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 384						
gcaaagaaac	aaagaggaag	gtgtggatgc	tcaccagaa	gtcttgtctc	ctcgcagtc	60
cttagaagct	caatcctcag	gagacagtgc	actgggggtt	gccaagggga	cctgaaatac	120
cggtttgcca	caatcctgac	caaatcggct	cccagggctg	agaagggaga	aggtgtcagt	180
ccattcaaaa	cccattcgtg	ctgattttga	agtggaaaaa	gaaaaaaaga	agcaaagaaa	240
agcattgctc	agcaatgggc	aggaagaaga	gttaagaggc	tgagctcttc	ggcaagaaat	300
gccatagctc	tttcaacttg	gacagagcca	ggaccacagg	ctggttgtgt	caaaaactgg	360
gtgttcttgc	ttagtgcata	aggtttgggt	gttttctctc	ctctttcctt	gagccctggc	420
acttggggac	cctg					434

<210> 385
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 385						
attgtgaatg	ccagcagaac	agctgacccc	aaacagcttg	aagaccccca	caacagaact	60
gaatcagcat	gaaaatgcag	tttctccacc	tctctgttcc	atgacttcac	cctgcactct	120
tccaccaatc	aatgggtctc	acactttggg	cgacaccaa	acgcttaaga	acccaaccct	180
agccccaaat	tccttgggga	gacagatttg	aggagtcttc	ttacctcttc	atttggcagc	240
cttaaaatta	aaactctttc	tttgcctc				268

<210> 386
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 386						
gtgacatggc	ttacaaggct	acttgtaate	aaattctcat	ggctcatccc	catttgtgcc	60
ctgaactcca	aacgtactga	gttacctgca	gttctgttaa	tccagcatga	ctttgtcctc	120
caagcctttg	ctgtccccac	tcatccttca	gttcctagct	caggaatcat	ctccatcaag	180
gtttccctga	cttctcccat	ttcccaagt	aggcggtcag	agagtccctg	gcttaccttt	240
ggggtagcac	ttacatcctg	ctccctaact	gtctgtagaa	tcatctgtct	tcgctgtctt	300
tgagcaccct	gagggcagg	actgcagctg	ttatctgggt	acatacaaca	ccaaataaca	360
atgcctaagg	catgccagat	attcaataaa	tgtctgtgta	agaagcaaat	gtttaaacat	420
ttccttcccc	agcatgcctt	ctctgactat	ccccacctcc	ttccagaagt	actcacctaa	480
tccatgcgga	caccatagac	caagtgcatt	tataaaaactg	gtttataata	ttaaatgggt	540
ag						542

<210> 387
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 387						
gtatantant	tcttatangn	nngnnnnnnn	nnnnnnnnnn	gggatgctcc	ttcctggacc	60
cagccaccca	ctgggaaaag	cctaagccac	gtggagcanc	tacatagaag	agggccgggg	120
ccacagctac	agccagcagc	tcctgccagc	cacgtgagag	agctaccttg	atgttccagc	180
ctccagagat	ctaagagctt	ccagacatct	accaccccag	ccacaccacc	tgagccaatg	240
tcccacagag	tcatgggaga	taataaaagg	ctgttgttct	ct		282

<210> 388
 <211> 263

<212> DNA
<213> Homo sapiens

<400> 388
aggcaagttc tccgttgccc aagctggcct ccaactcctg gctcaagtga tcctcccacc 60
tcggcttccc caagagatgg ggttacaggc atgagccact gtgcctggcc tcacaagatg 120
ttgttatctt tgttttacac tatcaatgcc catgcgtcct tacttaatta ttaaccactg 180
tattgctgtt cattcttcct gcattctcata tcttccatca gggatcattt ttcttctaca 240
taaaataaat catttgtaat ttc 263

<210> 389
<211> 292
<212> DNA
<213> Homo sapiens

<400> 389
gtaatgcttg tgggtgttcca gacagcagaa tgtgagtggg acatcatatg taccacctct 60
gggcctggac catagaactc acacataatc ctccatgttc ttatgtgacc acacagatga 120
acaaagcaag ccaagtgtgg aaacgtgtta aagatgacgg aaccacaaga tggaacaagc 180
ctggatccct gaatccctcc ttggaggatt agtccccaca aattgtaaag agccaccag 240
atctcagcga gcaagaaata aattatacct gaatgtttta aaaaaaaaag gc 292

<210> 390
<211> 244
<212> DNA
<213> Homo sapiens

<400> 390
gattgtctcc aatttacctg gaccacagcc agcaccgtat cctcaggcac cccatgggac 60
agtacatata gaagaacagc atcacaccac atcctatcac caaggccagg attctgtgcc 120
tccgcccccc tccccacctc cttgaaacgg gggaagtagg gggaagagtc aattcttctt 180
ggagcacatg agatggtagc ttgctgtggt gtcctgaaag aaaacaaagt ttgtaaatca 240
ctgt 244

<210> 391
<211> 436
<212> DNA
<213> Homo sapiens

<400> 391
ctgaggaata tatgattggt ttcttggaaac aatttcacag ctggcatgga actgaaaccc 60
tgctactcag gggaaattag gatcagctct tgtccagttc aagctgactc cactgagcct 120
ccaatggcct gtatgaatgc ccaatgagtg cccttttgac atcagaaggc caaaaactcc 180
accctcagat tgtgccaacg acaccatctt gcgaacgtgg atcctatgaa aagccatgaa 240
gcttaactgc actcgcacag atcagcaatt acctcacttt tccttaccac caattaactt 300
tttccatgca ttggctgcct tgcttcttta ttccacaaaa atccttatgg ccccactttc 360
aaggagggag aaatttgagg gnggttatcc cacctcctca cttggctgcc tcatgaataa 420
aatcttttct cctg 436

<210> 392
<211> 178
<212> DNA
<213> Homo sapiens

<400> 392
aggctgttgt gatatcctgc atggacaagg aaatgatgtt catctaatac acccacttgg 60
gaacactttg atgcattggc tatgattgtc tttctgtttt ccctaccctc atctctagcc 120
ctgtcccagt atgagaacat ggaaactcat tttggaaaat gtgaaatgag tgatcccc 178

<210> 393
<211> 263
<212> DNA

<213> Homo sapiens

<400> 393
attgatcgca gagttgaaca acagagaatg tgtgcacagt gccaggcaca ggtgtggtca 60
agattcacct gggagaggaa gtgggcaggg gcagaggagt gtgcccacct gagctgaaag 120
gctgcatggc aggtgaccat tatcaccagt gtcgccagcc aggtcacctc tctgaatttt 180
gtggttgcaa cctccatgat tccctagagc tgtttttacc cagaactaat gaaaaattct 240
gcacattaaa ttcattgctat tag 263

<210> 394

<211> 267

<212> DNA

<213> Homo sapiens

<400> 394
ggccccctaac agtgtcatag gcctgatgga gcagcgggaa ctgcctgagg gtaaagctga 60
agtttcctcag aaaccagacg gccttacagc ctcttctactg ctcttttgaga tggagagaa 120
gaaatgcaga tgagtgtttt ctgtacaaaa tctcatctct ccaagctgaa gttgccaagg 180
aacatgccat cactgtaact gctaaaaaca caacgtataa tgaaatgcat cttctacaaa 240
tgaatctgtg aatacagaat agcctac 267

<210> 395

<211> 180

<212> DNA

<213> Homo sapiens

<400> 395
gcacacatag ttcttttttg cgtcttatct tctgaagctg cctcaaggcc aagcaaagaa 60
agttgttaaa aagttaagtt acttttcaca gcctgcaaac ccttcaaagg caagaactca 120
aatagaaact tggaaaggca gataagccag aaaagtgtac taataaacgc acttaatatg 180

<210> 396

<211> 428

<212> DNA

<213> Homo sapiens

<400> 396
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gtctccgagt tggaaagtgt agccaaagaa tttcagtgat tgcgttttgt gtacttacac 180
ctgtgggacc agcactctcc atttaatgag ccagctgctt ttctgattgc ttccccggat 240
ggccaagtca ctgcagaagt ttcttgaaag ctcaaagtgt gccttttcct aaactaccca 300
tggccccacc ccacctcacc ctgtgcctat aaagacccca gactcaatca gcagagagga 360
gaagcagctg aatgttgagg agaagggact tgacttcaga gggacagctt gatggagtaa 420
ccggagaa 428

<210> 397

<211> 285

<212> DNA

<213> Homo sapiens

<400> 397
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ancgaggtga ggccttgaaa tcaacatctc cgctctcttg cataaaccct tcattgagac 180
tctctttoca tttgggcaac ttgatgtggt tcaagagcat ggagaattga tctcttaaga 240
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<210> 398

<211> 169

<212> DNA

<213> Homo sapiens

<400> 398
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 gaaactaaga gaacaggcca cagagtgtct tgcaatctat gctgctagca agtgtctttc 120
 tcatgcctga tgttatacaa aaactagcaa taaaggctta ttctttcct 169

<210> 399
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 399
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 tcttttgaaa cgtcttgtgt aggcagtagt taagaatatg ccaccagaa gaataccaga 180
 tgaataaact tacaatatatt ttgaataaag ctcaatctaa caat 224

<210> 400
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 400
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 tnnnaaaang nmatntnggn nnaaaaaacc ngnnancecc ttcttcccc ntccagaaac 180
 ctanaattna cgttctacna ctccacaac ccaattccaa ctctcttnt taatatgtgt 240
 aangngtate tgccccatgg gccttctgga tgtgttcatc aattctgaaa aactctgaac 300
 tcggaagctc agtgagcccc agggtttggg gtaagatatt acggacctgc ncttnagcca 360
 aaagtgtctn cgctcactct actactgunc tactguncct gacggngat gtcccncaa 420
 gccncttgc tgtggggcag gggggcccc tgtcttttt ggggaa 466

<210> 401
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 <212> DNA
 <213> Homo sapiens

<400> 401
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 gtgggcagaa ttcacataca ccagctccag gcctggcca taacacttcc tgcatgatct 180
 gggatgcaaa cgatccagtg gaggcctccg aggccttaag gatgaagcag ctggagacag 240
 aagggcctgg gtccctgaat ggctgggagg aatagagccc cagtgcagtc tacttgaccc 300
 cccaccttga ctctgacata ggcagaaata aatttttaca ctctaaaatc 350

<210> 402
 <211> 133
 <212> DNA
 <213> Homo sapiens

<400> 402
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 aagcttgtgc tcacaatccc tgccattaca attctttata gtatgtaagt actttaataa 120
 acattatgaa gcg 133

<210> 403
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 403
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tcaataacaag atgcttttact ttgtcacaag aagcatataa taaactcaaa gctgcaagga	180
tatatctgta agggaaaattt ttctttgatc tggctggcct tgaacataat caccagaaag	240
actttttgtg ctccagatatt atgggtgtaa atgaggattt ttttcctcac ataagaatgt	300
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<210> 404
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 404	
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aaagatgatt cgacttcagt gggacagcta gactttggag gacagacggc ttaacttcag	120
ggaagagcca gctagtgaaca accggacttc aggggaagatt acctgcccac cctgaccct	180
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cc	242

<210> 405
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 405	
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gacctcccaa ccaggagacc ctgccgctgc cccagcctgg agacgtgaca cttctcccag	180
ccaggaggct ccagtgaaac cagggattcc ccaggctcac cctgactcct catcttgta	240
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<210> 406
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 406	
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cagagggcca gtccccaggt gatgccggtg cgctggagaa ggcctgggaa gatgtgcgga	120
gacagacacc tgggacacct aaggaccaag cccagagcca cgctgctgct tcccagctg	180
ccactgggct gcatgaaggc agaacatctc cagtgaagtc aacattcagc tccaacctta	240
agcctccacc atggccaaga aaggcattgc tgctggggga gaaatggaca ttaacactgc	300
ttcaaaaggg tgctgaaaaa cacccttcat ccccgatggc ttagcttggtg gaattcacgg	360
gtacttgcct ctgacctca tgagtctatg tagaaaaacc tggttgagga actgtttggt	420
gacaccaca tcagct	436

<210> 407
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 407	
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aggcactatc atggaagtcg aaactgggtc ttaccacat accaaacctg ctggtgcctt	120
ccttgatctt ggacttctca gcctccanac cngtaaggaa ataaattctt tttttaaat	179

<210> 408
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 408	
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agaatggcag	ttatgaaagc	cttgaataag	ataaaggaag	aggatttcct	taagcagttt	180
cctgtgcctc	caaactcacc	aaaggctgta	tgcgctgttc	ttgaaattga	atgtgctcat	240
ggtgctgttt	ttgtagctgg	gagatataat	aaatactcca	ggaatctacc	acaaactcct	300
tggataattg	atggagaaaag	gaagctggaa	tcttcagtgg	aagaattaat	ttcagatcat	360
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<210> 409
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 409						
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gcccagcagc	cttggggcgg	ctgagagaag	atgggatcca	cgtggcccat	agcgcacccc	180
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ctgccagggg	ctctcgcact	gacgctgctg	tccttaatgc	ctcaacagta	caggcaacat	300
gggctacgct	gagccctgc	tctcctggaa	gtctgggtatt	ttggtatttt	ggcaggtgcc	360
aggcagaggg	tgcctaagac	cagcccccata	aagtccctgg	gccttcccc		409

<210> 410
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 410						
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gctgcagngc	cctttgtgcc	catggctgnt	gatgcacaca	ggattcttnc	aaaacaagag	180
gccctactct	gtgactgtna	gccttgccat	caacactnct	ntttggagna	nagctncttg	240
ntggccctga	ggcaggagnn	ttctgagatc	ttnacntatg	ctgggcttga	tccangcctc	300
antacaggtg	aagaaacgga	ncctgtaaaa	ntgaagtggc	ctgcttaagg	gccngggctg	360
aaagtctgag	gcctgggttn	aanccaaacc	cnggcaaggc	ttttgagaac	tccaccnttg	420
ctgccatctt	acgtccaggg	agg				443

<210> 411
 <211> 96
 <212> DNA
 <213> Homo sapiens

<400> 411						
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tgateccatt	acaaatacat	gtgatgacat	ctgttg			96

<210> 412
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 412						
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gaagacccaa	tcatcatgct	gacgaatcac	aaaaagatca	gtaaagccca	cccactctca	120
caggtggtgt	cactgtggct	ccatcacatc	agctagacct	ggccatgcag	tccaacttg	180
ttacctacag	ttccagctgc	caactcaggc	catctcactg	aatgaaatac	ttgcttcaac	240
attgaagatg	tttctcttgg	ccactcagag	gaaacaccct	ataatgaaca	ataaacaata	300
ggactc						306

<210> 413
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 413
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 gagccaggtt ccacaatgct tgatgantac aatnttttca ngaanacagc anaacagcat 120
 gaagaaaaga aacctggatc tgcaagtgcc taagcagtga gcaagacccc accaactn 180
 ggccactnct tcttgacca tccttaataa agttatttc 219

<210> 414
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 414
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 aatctctatg cgggactctg aatgtgggtca agaagaagat gtactggatg cacattccct 120
 atcaggagtc tcttaatagt ctcccaccca gttacaacat attgctgtaa tcccacacaa 180
 cagctgaaac atcttttctt catttctttt aattcctgta gcatttgatg tctccaccgt 240
 gtaatttaca ttttaattgta agttgttttg catcatttaa tagttgtttc aagtatgaat 300
 gtcttgccct cccaagaaag attaaaataa gaatccttta aaaacaagag cttactggng 360
 ccagggccng acttagactt agagtaaacc ncaactactg gcttcacttc aagctgacct 420
 aaccatcttc ccagcgaaga cggnaacct ggaacta 457

<210> 415
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 415
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 aggcgtctc tcaggccagg gtggctccac ggtcccagcg acatgcaggg gctcctcttc 120
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 tttgaacagc gccacgcttt cctatatatt tttatagcag agcctaaggc acagcctggc 240
 acaagtgcgg gaaacaagtg tctctncatg ccagctccaa gcggaggctc aacttttcat 300
 tgntggttgn caaaaggggc aaanagcccc tgggaaaaac caaattttga cagggga 356

<210> 416
 <211> 99
 <212> DNA
 <213> Homo sapiens

<400> 416
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 ttttaatcgc cgctcattaa aagaaacact gactgggtc 99

<210> 417
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 417
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 caccacttat gacacagaag actctaccaa aggaaatcaa actacagaac agcaacaaaa 120
 ctcaaaannn gnncttttgg cttttgtgtt attaaaatat tttctcagca gac 173

<210> 418
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 418
 caacaaaaaa tggattaaga cgccaagagt ggagagtccc tgcacaaact ggattcaaca 60
 aggacagaaa ggaagcccaa acgctttaca tattgcctgc tttacacccc aggctcaagt 120
 ccagaaagtc cctgtgatac aactctccag tgatttcccc tgagggtccaa cctagtaggt 180

gcttaaaaaag	tctttgttgt	aaattaataa	attaatccaa	aaccaccaca	ctgctatttc	240
ctcctacctg	tcttcctgtg	cctatcataa	gctgtatcac	ctgggggaaa	aacatttttc	300
agctaaat	agaacagggg	gggttttggg	ccataattcc	acttctagta	atagattcta	360
aggaaataat	cagatttaga	taaagatagg	ngtatgataa	tattcaggca	atgggggttt	420
caatagtggg	aaggtgggat	caacctaatt	tgaaaaatag	cca		463

<210> 419
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 419						
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tacagcagt	ccattaaagg	agtgggcatg	tggcctattt	ctggccctat	gaagcaaaag	120
gagaggtctg	ctgggagact	tcctgaaact	gctcttcttg	gaaggaggga	aacaaacaaa	180
acaacaacaa	aagaacttta	caagagaaa	ctttttatcc	cagcccttc	ctactcccat	240
tgaatgcagc	tctgtgagga	cacgatattt	gaagctgcag	tagctgaggt	ggcaaaagat	300
ggcagaacag	aagagcagac	agaatctggg	tcctagatga	cttcattgca	ctgntgcaac	360
tgntctntnc	agantnttg	gcnnngggna	aaaaatnaaa	nggcntcntt	gnttaanccc	420
ctggganact	anattntgtt	ctttgccact	gaatgcaccc	taatgctgga	actg	474

<210> 420
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 420						
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ngagagcccc	atttgttngc	tttngcccc	tggantggaa	ttccagnggg	aagatngnna	120
tgagagttna	ggntacgga	tgtnctata	aatcagacgt	tgctgncttt	gatggccnna	180
nctnacttct	gnacaggntc	aatnaaaagn	tgatnantac	tntcaaanat	gtgatctncc	240
tgaagttaa	natcatgcna	ggagatgggg	tcctgttcca	tgagagaaggn	ggggggggag	300
accacatcac	cttggaaactc	cagaaaaggga	aggctcgncc	tacacctcaa	tttggnggnt	360
tgtagttctc	cttgaagagg	tccttcacat	cccttgtaag	ttggaaaaac	attccatgct	420
catgggtagg	aagaatcaat	atccgtgaaa	atggccatac	tgccaaggt	aatcttg	477

<210> 421
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 421						
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cctctggatt	aaaagggatg	tttggatgaa	gcttcaatct	caagaagagg	caagagaaaa	120
ctaaagaaaa	agattattct	acagaaacaa	cacatcactg	gatgcctctc	accatgcaat	180
cctctgtgca	cttgagaaga	agacaagact	ctcctatttt	tagatgggaa	agctgaggga	240
aaacggatgc	acttgggcaa	aatcatttga	taaaaatgga	agctgaacct	cc	292

<210> 422
 <211> 98
 <212> DNA
 <213> Homo sapiens

<400> 422						
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gacatgtcat	gaattcctga	accacaataa	atctgtga			98

<210> 423
 <211> 103
 <212> DNA
 <213> Homo sapiens

<400> 423
aaattccnng gactaancnt gancacaact ccatcggcctt tgaagattct gtgccttcta 60
nttctgccta agaataagaa gaacttaata caaatggaaa att 103

<210> 424
<211> 376
<212> DNA
<213> Homo sapiens

<400> 424
gctacctctg ctcactctgc cctgataaca ctgaatacag gaactgtctc catcacccag 60
aactcccgga accaagcact cagcccgaca cgtcatactt attaaaaaca cggagggtcgt 120
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tcttatgtgc caagtacttt atgtatgcat tatcataaat aaagcttttc accattncct 360
taattctttt attttt 376

<210> 425
<211> 78
<212> DNA
<213> Homo sapiens

<400> 425
agaaaagcaa tgtcttgcag tttgggtggga gagagtatgc agtcaccaac atggcatgaa 60
tttaggagtg aataaacg 78

<210> 426
<211> 330
<212> DNA
<213> Homo sapiens

<400> 426
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gtgcagatac tccatagggtg cttaggagtg tnagtgttna gngactgctg caagaaaaga 120
ggagatacga tctgatcact tagacttcaa atccaaacct tgaaaagtcc caccagtggt 180
aggactcttg ccgccttgag agaacacagc tgatgtccgg aagcaatatt gntaacntta 240
ccaataantc caatcaaacc ccaaaaaaaaaa aaggcccggg ggcccattta ncttggantt 300
accaggctga acttgnttaa aagggggggga 330

<210> 427
<211> 291
<212> DNA
<213> Homo sapiens

<400> 427
tgatcctaga ccatccccct tcgccttctg tctcaactgg ctgggaagat tcaagagagg 60
cttccaacct gctggcagtg acggatggca gtgcagagggc acacaatggc aagtgcaggc 120
gcgtcaccag ccttgcagct ggccttccaa agaaagaacc aaagtccaag tctgtcctga 180
cagaggctga ttttaattaag gttatagcaa agggcagaac tgctgtggg ctgcattctc 240
tgcagagggc caaagacaat gcattaaaat acttctcagg aagaaaaaac c 291

<210> 428
<211> 304
<212> DNA
<213> Homo sapiens

<400> 428
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tcagcaatgg gggaggaaaa cgagcgcact acggggtaaa ggaggtcacc caagatctca 120
agttcacgag tggcagcctg gattcaagtc cctgcctgcc tccagaacct gagctctgaa 180
acgctggact aatcagaacc tcttggccct gaaaaatgag gcctattgaa cagagacatt 240

tgtaagaaaa gggactatta caacctattg taaagtaaca agcaaataaa aaatgaaatg 300
gccc 304

<210> 429
<211> 248
<212> DNA
<213> Homo sapiens

<400> 429
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gggcttttct ctctcctgat gagatgatgc aaatggactc catagagaaa cgctgcccgt 120
gtaacaatgc agttacgcaa cccggtgcat gacacatgaa ttgcagcgca cctgagatcc 180
tgatgaaatc ctgggagcct ggagctgtca aacatgggtt taaaaaataa agggaataca 240
cccagccc 248

<210> 430
<211> 460
<212> DNA
<213> Homo sapiens

<400> 430
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aacctttctat tcctctgatc tattttcttg tgggggtggg caaggggccc attatgtctc 120
catctccctt tccaagctcc aaagatnadc tggtatgggg gcttgccatt tgtaatctcc 180
accaaaaaat tcattattgt tggaaaagct tggattattg gattttgggg gaccttgggg 240
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tcccttttgg cctttcttgc catggatttg gaaaaagttt tcccttggag ggccctcccc 360
aagaaaaagc caaagaaaag aatggcccgg tccattgcct ttccttggta acaagtcctt 420
tcaaaaaaaa cgaaatgggt gtccaaattt aaaaatcttc 460

<210> 431
<211> 176
<212> DNA
<213> Homo sapiens

<400> 431
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ttctcaccac tgaggctaca aaagatatct acacctgcaa ccttttccct ttttttcttc 120
ttcccttttg ttatgatgta taaagtgtcc cttatctgat aaagagctaa tcattc 176

<210> 432
<211> 301
<212> DNA
<213> Homo sapiens

<400> 432
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cagagcaatg catttgtgtg atttgcccaa ttgtgcatga gtacagtcag catggaaatc 120
cagttcaaac tgcagaagat cagcacctgt gagctgaaat gtgcatgtgt attttacagg 180
gtggaggata gtgaagacag attcaagcga taatacatca ggtttaaatc ttctataaat 240
gagattggat tactgcagct gataaacatg gaaatgagta attaaaacat ggtgtgtaag 300
g 301

<210> 433
<211> 443
<212> DNA
<213> Homo sapiens

<400> 433
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cagcaccaag caggagatgc agtacagtgt gcccaggacc atggcagcca tcacatatgc 180

cctccactgg	ggaacaagaa	gtgcgttagg	ctgatgtact	ccactccacc	tccatacgtg	240
tttgtgcagt	gacaccagcc	tggagggcct	tctatcgcca	tctccctcct	ctgtaaatacc	300
tacccactct	ttgagtcttg	gncccagggg	ctgntgctct	ctntntctca	aatgatttct	360
gtgttctcat	ttgtctctgc	cttctctggg	aatctttggt	gccacagggg	aatctcctgt	420
gtgtcactcc	tgacttcgga	agc				443

<210> 434
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 434						
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tagagaggag	agactgctga	cctgctaact	gaaaatataa	gcaagccctg	acatgccaca	120
ggccgtcgga	agagacattt	gcttttgagt	acccagccta	ttctactctc	tgacttatgt	180
agatgggaca	aatggtgccc	tgggcacact	catctacaca	tcagcctgaa	ttagctagta	240
aatcacaaact	gcagtagcta	ataacagcca	taaagccttt	tgaatggt		288

<210> 435
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 435						
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taagcagcct	atattataaac	tgctctgaaa	tgccaggag	caggtaactc	ccaaatgaaa	120
aagcaagcag	gtctctccca	ccatcagtgg	gatggctgag	ctgtctgtgg	tgcttttgca	180
tcttgctgct	tcgctgaccc	tgaaggtctg	ccccagcctc	aggcgaccaa	gcctacagcg	240
acctcaagga	gcagctgcct	catcagtget	tgtaggaggc	tcaggatgga	gaggggtctg	300
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tgctatgaag	ttaaaagagg	aat				383

<210> 436
 <211> 251
 <212> DNA
 <213> Homo sapiens

<400> 436						
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atgggtgaatc	acaatttttt	catctgactt	ctgttctttg	ggctctgact	cttcatcaga	120
atcaatgtca	agggccttct	ccttgtagtt	ttgatacagg	acagcatttt	ctgcaagaaa	180
acaaggccta	tgtgtcacta	attgttctca	atcattatgt	tacttgttct	aaataaacat	240
catatgtacc	c					251

<210> 437
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 437						
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ggatctgaag	ttgctggaga	agattttgcc	taggctggcc	agcaactggc	agacaagagt	120
catcctttca	caatgctgga	gacagtagac	cttcttcagg	accacaagca	agtcaccatc	180
tctgggtcac	agcttctctca	attaaaaagt	tagaagatag			220

<210> 438
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 438						
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acaaatattg	atthttcaaga	tcaggaaaaa	taccgggacc	agaagacaaa	tttcagagcc	120
acctaaattg	tggagtctaa	taaaagattc	ctttctccta	atgatgtgac	catccaaagg	180
atacactctc	agtgtaaacg	taaacccaga	ataaaaattht	atcatcacc		229

<210> 439
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 439						
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accaatgctt	cttcagcttg	aagactaaca	tctagaagag	tcatgaagtc	taaagtcaag	120
aggagtctta	tcttctagaa	agthtttcaa	acatcccaac	ctcaaaaagt	ttggctaaat	180
ggtgttcttc	tacagcccca	cacatgcaaa	catctttatt	gcacttggtg	cattatthtt	240
tcttcgtata	tgtgntthtt	tataagtaca	tttatatgaa	ggnatathtt	gaaataaaga	300
cacttcttc						309

<210> 440
 <211> 756
 <212> DNA
 <213> Homo sapiens

<400> 440						
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tgggggggaaa	ncaaacgggt	ttnaaataaa	ctnttnatat	anaacccccn	cncctttggg	120
aaatcngggc	catttnacna	aaaaatgaan	tnngcnccca	agggtthttcc	gggcccgttt	180
ggggtggnaa	aaggctnttc	cggthtttgac	tggggggcaca	aacaaaaaca	aatccggctt	240
gctcttaatg	cccgcctgtg	gtttccggct	tgtcaagcgc	aaagggggcc	ccccggthtt	300
thttttgtca	aaganccgac	cttgtcccgg	tgcccttgaa	atgaaacttg	caaggacgaa	360
gcaagcgccg	ggctatcgtg	ggcttgggcca	cgacagggcc	gttctthttgc	gcaacttggtg	420
ctcgacgttt	gccacttgaa	ancgggaaag	ggactggctt	gctattgggg	cgaaatgccc	480
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cttgatgccca	atggcgggcg	ggtgnatacc	ctthgatncc	ggttaccttg	gccattcann	600
cacccaaccg	aaacanttgc	attcgaaccg	aacacgtacc	tcggaatgaa	accgggcntt	660
gtccaattca	agaagatnct	ggacnaaaaa	caatnaaggg	cttcgcgccc	acccccaaact	720
tgthcgccaa	ggcttnaaag	gggcgcattg	ccccc			756

<210> 441
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 441						
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gtgggtaatg	ccataaacct	ttggccagga	cataagcagt	agaagcagcc	tgcattgtgc	120
atccatgaga	aggccccgct	gtgactgcag	aggcaggaaa	ccagggtgtca	gtggagacaa	180
aggagtccct	ggcgcgtgaa	atgggacttg	gagcagggcc	cgacgggagg	ggacagagga	240
tggctgccag	ccagacagtc	ctaactcggg	gaattcagtg	accacagcat	ccccgggtga	300
cacggctgtg	aggccttcag	agcatcacca	ttcagtcacc	cctthtttaca	ctgggggaaac	360
tgaggctcaa	ggaagttaa	cagaaatgcc	tttagcctgg	gcaagaagg	acctgtccta	420
nccttgcatt	ttgggagcag	tgcttcttca	actacctaan	gcaaangacc	catttgggtt	480
tcaacctctt	atcttgttca	nactgatagg	ttaataagaa	acaataaaaa	tgatttgccg	540
ggcaaggngg	ntcacacctg	taatnccacc	thtttgagnt	gaccggcgag	ataacctga	599

<210> 442
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 442						
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ccnacnttht	tggnagtccg	aggcgggncg	ggntcacgaa	ggccaggagt	tcaagaccag	120

cctggcctat	atggttgatc	cttctagtct	cgtggcagaa	ctttgtagac	accaagcgag	180
aggggcagcg	tggtctggac	ctcattectc	acacagggct	cacctccgga	tgagtcagag	240
gccttagccg	gtggcccagc	cccgggaatg	ccaccccggt	tctgtaccct	gcccaggcca	300
gctgacaggg	tgtattgggg	cacacacctg	cagcatccag	ggcactccaa	ggagagggac	360
gtacttttga	ggagaagtct	aaaagtctaa	gtccaccacc	tgaacttggt	gggggaangg	420
cttctatacc	aagagggctc	cccgcctgtt	cttaaaagcc	atttaagcag	aatgacgtgg	480
ctcttcaata	aagtaaaaaa	gggtcatgct	gg			512

<210> 443
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 443						
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aatggaaaga	atctgagggt	tccactaaaa	gccaaacta	tcttgccagc	catgtgagtg	120
agtcaccttg	caaatggatc	ctccagccca	tcagggtctac	aaataactga	agcctcaagc	180
tgacaacctg	actgtaatct	cataaaagtca	taattgacca	act		223

<210> 444
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 444						
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ccgcctccca	agtagctgga	actacagatt	ttaacaatca	gactcaggtc	aacagtgggt	120
gagataatgg	cccataattg	gtcccagaat	gcaaacgtgg	catttctcca	ggattccatt	180
agctcagaat	gacaaggtga	ctccctgccc	ccacctccct	cacaagatgg	ctccccgggg	240
cttcctctga	getctgtccc	tgctctgcac	ctccctgtgg	ggacggctga	gctgctggtc	300
ctattggagc	agcatgaaca	ccttgctggg	tgttcatgag	ggagaaaagc	tcataagga	360
atgaatcaga	gttggatgct	atgcatataa	atatttaggc	ctgtaagggc	ttctctttgg	420
tgatctgatt	ccaccacata	ccaggtagct	cagcataatt	caaacattcc	tgcaggaaag	480
ggtcataatc	tctgctctat	taaagtccaa	tttatccttt	aatgaaatc	tactcacagt	540
cctgcagatg	aagactactt	nctgccgatg	accacagcgg	ctaagangct	gaggcaggag	600
accgcttgac	ccagaagg					618

<210> 445
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 445						
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tggttgagaac	atagcaaaaag	cagctcttct	tgacaaaaat	ggaaagaaac	atcctcaagt	120
ttcagtgtc	aatatatttt	ccgatcaaga	ctacaagaga	tcagtcatta	caatagcaac	180
ttctgttgat	aagttgggtg	acaagcgcaa	ccaagcctaa	aggcaagtgc	tggtgcgagg	240
tcgacatcca	ggaaccagag	gagggcagag	caatccacag	aatggatctg	gggtgactca	300
tgaggagaaa	ccaacacaca	gtaccattta	attcttttta	aaaagatgga	aaattatacc	360
ataccngaa	ttactaaatt	cttaaaagag	ggggtttntn	gcattccatt	tgnaaaanaa	420
ngtttcccca	tgttctttta	aaaattcatt	ttaaaccac			459

<210> 446
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 446						
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acaccactgg	ttttctggg	tctccagctt	gtagatgact	aatcatgaga	cttcacagcc	120
tccataatcg	gaatgaaaac	aatggctagt	cctggattgg	tcattcttta	ctttgatgag	180
atgctgaaaa	tgaaagccag	gactgaggga	agattgaagg	agtctgaacc	tctgacaaca	240

tgaggtacca	taccaaccct	ggactatcta	cctccagact	tttacatgag	taagaaacac	300
ctagtttgn	caaaacagta	ttaatttgga	tctttgntac	ttgcagttaa	acctaaccct	360
gaaataacct	cattctcttg	aagtaaattg	ctttcaaaaa	cct		403

<210> 447
 <211> 635
 <212> DNA
 <213> Homo sapiens

<400> 447						
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ttngaantnt	gcctgtccan	atgtnggggc	cagagattta	gaccctcatc	ctcaaggcct	120
tattcctcac	aaaagccata	tgtaaaactg	gctgtccac	aagggtggg	atcctgtgtg	180
tctcattccc	cactgtgtca	tcaagtgcc	agcacaaaac	agagctcagc	aaatgcttgt	240
cgaataaatg	aatgaaaacg	tgctcagcac	aggaggttaa	aggcaccagg	accccatgga	300
gagagagtac	atgctgagtt	ggctacatct	gtgccaaact	gtgaaagatg	acaatggaga	360
tatttctctc	tacagtttct	gaagatggac	ccagcccaac	acttctttcc	atgcctggct	420
gtttttaact	gcaggcacag	cactagctgg	tttgtctcaa	agattatggg	tcaaaagaga	480
actgagagac	aggcaagtat	ccccncggct	ggacatactt	tacttgccgg	caatacatag	540
tgctcttctt	gcctgacaat	tcgaacaagc	agcttgactc	tgtatttgag	gccccactcc	600
cttttggtca	actagaccan	actaatttac	tcatt			635

<210> 448
 <211> 81
 <212> DNA
 <213> Homo sapiens

<400> 448						
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gccccctgca	caaaaaaaga	a				81

<210> 449
 <211> 616
 <212> DNA
 <213> Homo sapiens

<400> 449						
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tctgctnaca	ttctgagaga	tctgcactcc	aggcaccttc	tgtggacatc	aagctcacgt	120
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tgccccctcg	tttattcaaa	catggagttt	tctttcctat	ttatttttgt	ttgctggcat	240
ttttagagat	gagactgcag	aagaactttc	ttactatgcc	attttaaaca	cagctatctc	300
atgatttttg	taaaatccag	atataattgn	tgnttttttt	tattcttgcg	taaagtgtga	360
aatcttgcat	accttcattg	nattttgtaa	tcagccccac	ctatttcac	ttcatcttct	420
gctgcttntc	cccacaactt	ttgtttggct	acaagatgat	atcataccaa	atcctcagtg	480
gcaaaatgtg	tttctnctga	attcataaca	taaaaaaanc	cattaaaagg	ggggtangca	540
tacctgataa	ctattactgg	aataaaaacc	cggactcacg	ccttagaaan	aaaaaagggt	600
atcaaagggc	aacaaa					616

<210> 450
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 450						
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acacacagat	gctgccacag	acacacgcga	gcgcaaatat	ttacacactg	ccacaccgaa	120
gaaatccatg	cacgttttcc	tgcaaacgcg	cgcgcgacac	cgtaacttcg	cgggcgccca	180
cgctctctgt	ctcaccaaca	gacacagaca	tttacacttc	tagggcagga	aagcgctaac	240
cagggccctg	tgactctacg	caggttccag	aacacgcctt	ctacatttgt	tactgaaccg	300
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aatgngccca	gtgataatga	gtagnaccta	tgngggactc	ttnancttaa	angantggca	480
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tgnggcacatg	ctcaatt					617

<210> 451
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 451						
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gccaaagatgc	ccagtgcagt	accagcaaga	tggccaacgc	ctagagctcc	cttgttgatc	120
tgaaacctcc	ccttttcctt	actttccct	ctgttcagaa	tgtgtagact	tctctaagct	180
ttgttaaacc	tgtttacaac	ttc				203

<210> 452
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 452						
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cttttaaata	taggtttgcc	aactc				445

<210> 453
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 453						
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ctctcactga	ccaactaagt	gactgggtac	aaattaaaga	ggagaatttg	aatgtctggc	120
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catggagaga	aacagtggct	cggacctcta	agcggcacct	ccaatgactt	tctgcacct	240
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agttttctgc	aggcaacatc	tgtgtgcatc	ttagttgtca	caggtctggg	caaagttaga	420
gatgaataaa	ttttaaaaaat	aaacaactac	aaaaatacac			460

<210> 454
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 454						
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tccagccacc	agcctcagca	gaggtcccag	cccacagtca	gcaacaactc	cagacacgtg	120
agtggcagca	agatgatgcc	agccgcagtt	accatctgat	tacaacttca	taagaaaccc	180
tgagcaaggg	ctgcccagct	gagttcaagc	aacgccccag	acctgtgggt	gatgataata	240
aaattattgt	tgttttgagt	c				261

<210> 455
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 455
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ctcatctact atctgtattc aagcatgctc atgaaaaaca cgctgctcaa ctggacttan 540
aaggaaccng ngcatnacan gcattttctg acagaatctc gtgggcctgg t 591

<210> 456
<211> 475
<212> DNA
<213> Homo sapiens

<400> 456
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caaaacccac gctcttttca ctgtgatgca cggctaatac tgagctgagt gatgggaagg 180
gagctctctt tnggggattt tcangatacc ttcaaagatc angntggntc tgtttgcaga 240
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gcccttttgc aatnggaagt tatttaacct gatcacanca aaatgaaaga ttatttgaaa 360
accngggatg tgaaattctt ggaacccaaa gaaaattatc ccatgnttct ccaagnacct 420
ttgccacccc ttgtggnctt gctaggnac atggacccca aacctttcca gaaga 475

<210> 457
<211> 145
<212> DNA
<213> Homo sapiens

<400> 457
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agcttctcca gtgattgatg tcagcagctc acccganagc caagaacatc anaggtggga 120
tgatgatgct ngtggctatg agaca 145

<210> 458
<211> 434
<212> DNA
<213> Homo sapiens

<400> 458
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aaggccatct aacaggaaca cccacattgg actgtgatat gggcaagaaa taaacttta 360
ttgcattggg tcagtggagaa gttttatctg ttacggcagt tacttctact ttaataaata 420
caatgcatta tctt 434

<210> 459
<211> 493
<212> DNA
<213> Homo sapiens

<400> 459
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cacttatcaa gcagaagaat cacagaagaa tacaataaat ggtctagaaa ctgcagtgat 180
gatttactaa aggaagagcg tggttccccg agcaatggcc ccatcctcga gcccgaaagac 240

ccttaattgc	ccttnccacc	cgccccaaan	gtngggccctt	ggaaacattt	cttngggggcc	420
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tcaatcaatt	tcccaaaatn	ggtttgggtt	cggttcccaa	nggcccccaa	nccggaattt	540
gnaattaaan	ggganngggc	ctttcttttt	ntaangggcc	caanggaaag	cntntttggc	600
ccccggnngg	aaccttggtt	tttnccacc	gtaacctttt	tatttttttt	ccatttttcc	660
tt						662

<210> 464
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 464						
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gcaaacatac	tcatttgtct	acaagcaaag	agcatttttg	aaagaacact	cccttggtca	180
aatttttggtg	aactgggttg	ggagacaaaa	gtgactccat	cttgggatgct	aatctgccat	240
gttgacttct	gattaacccc	agtctgggga	atgcctctaa	gattttctatt	tttatttatg	300
tatactgtct	gtaaaccctg	ttcttaggcc	aagacaccct	tgatgttata	aaatcctgcc	360
cttaggctat	gacacacata	acattctttc	ctttttctgg	anaggggggc	ttcaattggc	420
cttatacatt	ccttntaaag	cacatatacc	ctttctctg			459

<210> 465
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 465						
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aatgacagtt	atctttacct	atcacttcaa	gttatttctg	tcaagaggta	atgacagtta	120
ctgaaaaaag	aagttctgga	cctttttcat	ttgcaaactt	atttttacaa	atggcttctt	180
ttcacataaa	ggatttgtga	tggtttaatt	ttgtgtgtca	acctggctgg	gccatagtgc	240
ccagatattg	agtatatcat	tgttctggaa	gtttctatga	aggtgatttt	tggatgaaat	300
tattttaaatt	ggtggacttt	gagtaaagca	gattatcctc	catgatgtgg	acagacctcc	360
cccatcantt	gaaggaccgg	gccaaaatga	aaactgancc	ctttgaggaa	naaattctcc	420
aancanatgg	ccttttgtct	gtttctctg	agaactgnga	ctaatacagg	ttcttc	476

<210> 466
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 466						
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cctcanaagg	ccagccaccc	tcaanggagc	aacccattgg	ncccagactt	ntcgcacgga	120
tgccagaaaa	actttnaatt	ggaaggaagg	cttgaaggtc	aacaatgggg	naaanaagtt	180
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<210> 467
 <211> 82
 <212> DNA
 <213> Homo sapiens

<400> 467						
cccgtgcatg	gtggcttgtg	cctatggacc	cagctgctca	agaggctgag	gtgggaggac	60
tgcttgagcc	caagaagtcc	aa				82

<210> 468
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 468
cacttttggg agggccaaac aaagaangnn ttgggtngac cccaggagtt tgaaaccaga 60
actggacaac atagtaaacc tcateccac 90

<210> 469
<211> 262
<212> DNA
<213> Homo sapiens

<400> 469
ataataagat ccttgaaagc aggcctgaac caccattgta caataaacat ttcctgcatg 60
aataaattaa tgaaagaatg aataataaaa caagatctct tcccagagaa agtttaaagc 120
ctctgaagac agcagacatc catttgaata accacataac aaagtgaatc atttatattg 180
caaaagacag agaaagcatt atacttgagg gcagaggagg gagaaagcat attactcaa 240
taaagatgtg atactgaatt ag 262

<210> 470
<211> 265
<212> DNA
<213> Homo sapiens

<400> 470
cngggnttgn naaatnngcc cgtgaancnc anatnaancn cgcccccacn aancaatggt 60
aggaagcata accagagtga atcgattcct tgatcctgct ctgccaaaaa attaaagagg 120
agcactcctg gggtttttaa cccagataag acttcagcca cagccgtatt tcccatgttc 180
ctggatctct tgttctggct cttattctgc ggataaaatg tggaatagag taagcagtgc 240
gagttctgcc ggttcattctg gcttt 265

<210> 471
<211> 268
<212> DNA
<213> Homo sapiens

<400> 471
gacgtctggg gagctcctgc attaagtcag aaccngagga aggaaagctn gaaaaaaaat 60
cgtaaatgt tgcgggattc ttgtaagcac agagaactat gaagacctga caaggagggt 120
atctttttct ttcattgctg tccaacaaga gagcacattg ttagtgtgct tgaattccaa 180
caaaagaagg catagaatga atcttggttg ttccctttta cttgctaaat atgtactgaa 240
tgaataaatg gtgcattata catctatt 268

<210> 472
<211> 456
<212> DNA
<213> Homo sapiens

<400> 472
cctgtctggg acctgcctgc agatttcagc cacttctgga tacacctggg acagggtcga 60
tacctccact gtcttacact gtgaagagcg ggacaaaccg atgagtgaca gactactgaa 120
tcaatccctt tttaagctgc ttaagttcca gatttagttt taaagagaaa aaaaattgtc 180
atctttttta aaagactgca tcttctttct cctaatagct aatattttatt gagcattcat 240
gacacgtata cactatttta aactgccact gtgggttgat gtcactcccc cattttataa 300
acatggagac tttggtaact ttctaacagt acttggccag tcagccaggc ctgtgctctt 360
cagagggcga atggggncct tatactacca cctaaaggcn ggtnggatga ccatccctat 420
aactttgttt ttaattnaag acaaacatgt aattag 456

<210> 473
<211> 170
<212> DNA
<213> Homo sapiens

<400> 473
atctgccgcc tcgaagagaa acattttcag aaccaaatac agaattgaca aagagaagac 60

ggccttggag atagagccca gctttttcat tgccgaggtg gaaaactgag gccagatgcc 120
gtgggacaga tgcagagaat gataaaagtca ccaaatacag gtgattattg 170

<210> 474
<211> 467
<212> DNA
<213> Homo sapiens

<400> 474
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gtccctagga ggggaggtga ctccgcggcg tcccggaat gatcctcgcg gagctcgcg 120
ggtactagcg cccccagcg tctggattga gaaacgcacc ctgagagggt ggagaaccag 180
cccagcccca aagtgaggtg gcagaaaaac gaactcacgg ccaaaggact ggctgaggtt 240
aaccagaatt gtgtaaatgt gttttgtctt gctgggctgc cccctctcct ggctccttgg 300
ctagggagaa caggattttg tttgggattt ttcttttctt tttttcgact gtgcctgggtg 360
gcgttcgagg gnttgccant tttttaaggt ccaaccctgg cttgtttttg ggnnaaaac 420
naaacnnaa cccccaanga attggncttt ngggtcattt ccttggg 467

<210> 475
<211> 440
<212> DNA
<213> Homo sapiens

<400> 475
cgagctgaaa ttaccataa tccggctgat gtttagactg caccatcgt tttttccatt 60
catctatgag taaaggagaa aaaaagaacg taaagacaaa atgcagctaa tactgaccaa 120
gacttacagg aacggtaaag ccctgtgatg aatgtcctgt tttttcctca ttcaaaagat 180
agagaaacag aagctcagaa tcttgcccaa aagcccagtt gtaaattgat tctcactctg 240
ttgcccaggc tggagtgcag tgggtccaatt tcagctcact gcagcctctt cagcagaatc 300
ttgacctctt ctgagattca gttttttcat ctgtagaaat ggggacctaa ggtacagagt 360
ttcttctggg agaattaagt gaaactgcat gcaacaccat gttaggcaca ctagaagtga 420
tcaataaata ctacttgagt 440

<210> 476
<211> 438
<212> DNA
<213> Homo sapiens

<400> 476
gcatccattc accangcatc ctcagccctt gctatggcct ggctctctgg ggctcagcttt 60
gttccctgcc tgctttctgc tgaggaatca gggcagtggc gggggcggcc ccaccagccc 120
gcagtcactg gccagacac agcgtggac acaacacccc ccgcttcca cagctgctga 180
ttcccaggga ctgccggacg cacagctcca taacaagatt ttgggaaaca aagtcaagag 240
tgagggtgtc attctgaaag gtgaacgggtg ctcacagagg aggagcctgt gtctgggggtc 300
gtgtgcatcc tactctgctc acagtggagg catcttttga agaagtgact tattttctgg 360
tacagagacc attccctccc ccacaccctc tcctaagact ttgtattgaa acaaagtaaa 420
tcttacagaa attgcacc 438

<210> 477
<211> 193
<212> DNA
<213> Homo sapiens

<400> 477
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tctgccatgc cttccctgtc atcatccact cttgcagcac agctggccct ctgtatctgc 120
gggttcaca ccgatggatt caactgaccg tggatcagaa ataccagaa aaaaaattat 180
atctctactg aac 193

<210> 478
<211> 345
<212> DNA

<213> Homo sapiens

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<400> 478
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ttctgaagct acagaggtac cttgatgtca ggaagaatag caatggcaga aaatgtttca      120
tcttgcatgc cagcacagac caatggcaat ggatgtctga atcactgggt taacaaggaa      180
aagaatgctg tgcttaagta gcaatgtctg ctctgagcat ggcaggagaa attattggca      240
cctctgtcag atatttgata tctatttctt aaatagaata catacatatt ctaagaacaa      300
gaaaagcata aacaaattaa taaattactt tctgacttct aaacc                      345
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<210> 479

<211> 240

<212> DNA

<213> Homo sapiens

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<400> 479
ctttgtgctg catctggcct cctgctctgt nttactctgn cgctactnca cctgcatgtn      60
acctactggn ggatccgntt ganaacacn taatttnaga anacagagtt ttgaacatca      120
ctgaccttta ccatcggtat aaccnactct ttacctccca aggctcgctc atttgacttt      180
attttttctc attgtctctc aaatttancc aactggnatg aataaactgg aagtaaacag      240
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<210> 480

<211> 504

<212> DNA

<213> Homo sapiens

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<400> 480
aggaaaccag ntcgacagag ctgtgatttg cctgngatt tgccctgggc ctnccacaa      60
ttctagaaac ccatgacttg acatcattgc gcggccacct gactccagc tggttccagc      120
ctctnctgtt natctccctc tactctnact ctgctgtctac caagtcagac ttnttttcan      180
aatgccctgt atcattttaa tgactggagt gtgactttgt tctcagcaca atgagtaaca      240
aagccaaaac actggagaaat acgtttacgt attnaagaaa acctcagaca aggaagaatg      300
ctttcataat acagnacatt anaatcagac gaagcctnga agggcanaat naccgatcct      360
gaaaaatcan agtgtntctac agaagaagac gacagcgttt gagcacattt gttgaagcag      420
cctcctntcc cttatgggnc gataatccca caccgnttta ccatgctctc tggccttccc      480
agaacatcaa taaaaactgc atcc                      504
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<210> 481

<211> 274

<212> DNA

<213> Homo sapiens

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<400> 481
taactggcag aaccacacac ttcaaaacag agactttggc tgcactctggc ctctgctct      60
gtcttctctc cactcctccc acctccatgt cacctactga gggatcgctt gagaacacca      120
gaatttcaga agacagagtt tgaacatcac tgacctttac catcggtata accaactctt      180
tacctcccaa ggctcgctca tttgtactta ttttttctca tgtctctcaa atttagccaa      240
ctggtatgaa taaactggaa gtaaacagtt ctac                      274
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<210> 482

<211> 299

<212> DNA

<213> Homo sapiens

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<400> 482
gtaatcttct catctgtgag gatatggaac cccaacctct tctgggacac ctgatgatct      60
gcttgtgatg ggctcagagt cttgaaacac agaactatga gctcatctca tatcccaatc      120
cagcagcatg gaaacctcag actgtaaggc ccaagactgg cacttggtct ctcccaacte      180
ttttctttct ctctctcctt tcttttatcc cttaattcct tcttgcttcc ttccaagatt      240
tatactatta ctttttaggc aaaacatcct gaacatgtaa aataaactaa ttaaaatcg      299
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<210> 483

<211> 395
 <212> DNA
 <213> Homo sapiens

<400> 483
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 acattattca agtaattaac tgaagccttg agcgtacaga tgatctccga aaggacgccca 120
 cagaggggag aaggctggac ttgcagaaca cattgctgtt gaagaagtga caggaagatt 180
 cagagctcac aaagaagaca ggtcagacgt ggagaggcga gccagcagaa caccctcaga 240
 aatactgctc tcctgttcgg atggccagtt ttcataatattt agaataatattt tcaaaaagca 300
 cttcaatata atgaagttcc ctacagttata acaaggccat ttttcatagc tatttgtgta 360
 gatagtccaa aagtgtggtg tgttatcaga aaggg 395

<210> 484
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 484
 gaagaaagca ttgctctgga aagaggggaag ttcattcact catccaagaa gagcaaagggt 60
 agatgccctg cggctatgga ggagggccgt ccaagctcac agttcctaga agtttgtgtc 120
 accatttcac atttagcacc agaattccagc cttggcagat tcaggggaagg aagccaagga 180
 cacagctggt ggtgaagaca gaaactcctg tgtgacaact gccccctagg acacagttta 240
 gggtaattta acatttcctg aacaacttgc aaatggaaag agccatcccc aatgaagact 300
 gaaaaatgag aggtcacaat catctattat gacttgaacc caagtctatc tgtgtttgca 360
 aaggctgtgc tgttgccact agacctccac ccagaaacat gttttggggc tgacatttta 420
 atagaaacat agagaggaaa 440

<210> 485
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 485
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 ccttgtgttt gtttctctgc ccagatgaga aacacctatc acctctgact ttccaaggag 120
 caaatcacgc tccgtgccgg gtcaccccaa caacaccact ccctcttccc ttgcgatctc 180
 caggntcctt ttgacactt 199

<210> 486
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 486
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 cntennaacc acncnagtt gcttcnagcc tccttngcgc cagcacatat ctgcancctt 120
 ggccaccga tcctaagcca aagcctcccc aacctctggg ctccagaagca ggtgtaatcc 180
 caactccagc aggggaattcc agaggtgaag gtcacgggag catctttaat cttcggttcc 240
 cagtagagaa gatacccaaa gagcaggag caggagccag ctccaggcta tacatttgtt 300
 tattcatcaa tcattcattt atgcattaat cattcattcc cccacccaa aaaaaaang 360
 gccagnngg ccaattcagn tgnacttaa ccaggctgaa nttgntnaaa ngggggggac 420
 ccccaa 426

<210> 487
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 487
 tttttttccc ccccccccg nggggggggn gnnnnnngg gggcccccc tcttttttgg 60
 nggttcataa aggggtggana cnccttgg gcgccctttt tgggggggtt tnaaaaaaga 120

naaaatcctc	ttcntggggc	ccttaaaanc	ccctccctt	ggaagataag	gcnnngggggn	180
aacataacan	ggggccgggg	gccccccca	ctttatttgt	ccccaagcct	taaaattttt	240
ttttnggtaa	tttttttna	aagnaaccac	anaangggg	gggggttttc	caccaaatgg	300
gtttgggncc	caaanaactn	gggggtcctt	ttggaaactt	ccctgggga	nccctcaagg	360
gngggaaccc	caactttggc	ccttaaagcc	cttncccaaa	aaaggtggct	tggggggaat	420
tggcaagggt	ggttggaag	tcaaccaca	cccttgacc	acaaggtact	aaataatttt	480
ggncctttaa	taaataagtn	aaaaactggg	atcatatgaa	aatttaatat	aag	533

<210> 488
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 488						
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gcttgccctt	ggaaanganc	cagggcaggg	gaaaagcttc	ttgggangga	aaacccttgc	120
cgtaacgnaa	ggcttgggan	ggaaacttga	aagaaagctt	gttggtcttt	ccgaagaaa	180
cttgaagctn	accggggggc	aaagcttgcc	aagtaagnaa	tatcccttg	ggatccaggg	240
gggggaagg	aaccacccat	ttgttcggga	ggaaagaata	aggggaaacc	aagcctttta	300
aacttgggga	ttgaaaccaa	gaaaaaatcc	ttgcccnaaa	ggggaagaag	ggaaagcttg	360
aagcttgggg	aaccgccttg	ggaaccgaag	aagttttgcc	attttaagtt	cccaagattt	420
accggggagg	gnccggggcg	ccggggctta	nncaagtggg	acccccaccg	gtt	473

<210> 489
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 489						
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gantnnagta	gantctcctt	tggtgtnttt	tgaaaacccc	anaaantttg	gnaaaacnct	120
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gacttttccc	angggaaacnt	caaaagccca	agaagaangg	ggcccaangg	gacccaagct	300
tcgaggggac	accacaagcc	cagggggcct	cttttccttc	cgaaaacccc	caaggggact	360
tgggactttg	caagggggct	tggggacaag	aaggttgggg	ggttgggggg	gggaaaaagc	420
aaattgcctt	tgtcaaaccc	acgttggggg	ggaagcccca	ctcccatctt	ccaaggggtg	480
attaaaagt	tgaaggggaa	acacctcctt	gc			512

<210> 490
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 490						
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tgtntgcttt	ccggggccct	ntggngggng	gggtntttgc	caanncnttt	ttggaaaagg	120
gcccnaancc	ccaaccaag	ggggaacccn	aaanacgttt	ttccagnngc	ntnnggaata	180
aancttgaaa	gggaagtttt	gggaaaacac	acttgggnan	ggaacaaagg	gcttcgggga	240
aagcntcaat	cagccccgca	ttcaaaacaa	gaagtggaaa	cttttcttgc	caaagaatgc	300
cggggaagtt	gggtttttca	agaagacatt	ttcaagaaaa	agtggaaagg	ggaagaagac	360
tcaaaggatt	tgactcatga	agggaccttg	aaagggggtg	ggacatccca	aggaaaagg	420
gcctcttgaa	aatttccac	accccaagcc	gccttgttgc	ttgagggact	ccctccattg	480
ttgggccccca	gggtggccac	caaataaaaa	aatcctac			518

<210> 491
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 491						
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gatttgcaag	gaactacgaa	gtccaagacc	tttgcccttc	ttttagaaga	aggcaccage	120
tggtttctcca	atgttgaagg	tcttctccag	agatgaactc	tgaaagccac	atgttgagat	180
ggccccatta	caggatggag	agcacctgaa	cccccaagtt	atggactaga	agaagacagt	240
tgccctggaa	aatcatctga	cccacattgg	actttatgtg	aggggggaaat	aaacctttat	300
tatgtttaagc	tacacaataa	taaataacaa	caataattgt	gttt		344

<210> 492
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 492						
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cngggnaaaaa	tgngngnggaa	aagtccttgg	cacntgnaat	gggccccctt	tgtangggaaa	120
aaannaaccc	caggggttcn	tgggagttcc	ncgaaccgtg	gggnncnttg	angggcncca	180
angggaagaa	aaaaccnccg	tggaaaccct	taattaaagt	tttngggggg	tggagaaga	240
agaaaaataa	aaaccttaaa	gtattgttaa	agcttcttgt	catttcaaag	gggtaaatac	300
caagttgttg	gaaagggcaa	gaaaaaaaaat	ggaccactc	tccccttgga	tatccattaa	360
aaaggatgtc	cctaaatcct	c				381

<210> 493
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 493						
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tnccntgaaa	aacnanggc	tttttngaca	ttaaagnnc	ttttaaggag	gtatgcccaa	120
aaaaaggnaa	ncccaacccc	tttngccaaa	aaatnaaacn	tcaaagangg	ggcnggcnaa	180
antcngggaa	ncnttttccc	caggggggaa	gaagaatgaa	cnctttttta	ntggggcctt	240
ncagaaaaag	gtggnaaggt	ccacttggct	ttttggcttg	gnctttggga	atcaaaggaa	300
ccnagaaaaa	ggaaaattan	ttggataccc	aatgggggag	ccttggaaga	atgccatttt	360
ggtttggggg	aggggttttc	ttgtcttcaa	acttgggtct	cttgacaaag	cctcttgact	420
tggaaatggt	ttcccgtggc	ttgggccact	tatgccaaag	aaggcatcat	taaattttaag	480
acggggactt	ggcttgcacc	tttccctgaa	gaaagccaag	actttccact	tggatgggaa	540
agaagcttga	aaaaaccacc	aaagcccagg	gaagtggcaa	gaaccacttg	gnccttaatt	600
tgcttncctg	aagaattncc	attattaata	aaaagaaaa			639

<210> 494
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 494						
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ttcagacct	ttcctcccaa	cttctggaga	ggngnagtg	ctggagactg	agttaataat	120
tgatcacgtc	tacatgatga	aacctctaag	tgacaaggat	cagagagctt	ccaagttggg	180
gaatacatcc	atgtgcaggg	aggggtggcct	accctaacc	catcggacag	gagcaccat	240
gttcaggaat	cttctggacc	tcaccttatg	tattaatctc	tctttatctg	gctgttcac	300
tatatctctc	atagtatcct	ttataataaa	caagcaaatg	tc		342

<210> 495
 <211> 613
 <212> DNA
 <213> Homo sapiens

<400> 495						
ntcntgaaac	tggagttcgg	ggtngtnena	ttaattgggg	aaatgggann	ggggaaaaat	60
aaaaatggaa	ctgggaatgg	gngccgcttn	ctttttttaa	agntttcaaa	aaatgaccat	120
ttnccaaaaa	caaagcccgg	gggccttgga	nccccgggc	cttgggtttt	aaaaaatttt	180
aacaaacanc	aagttccttg	ggggaaaggg	ngggggaacc	cacccaacct	ttttctttga	240
aataaacttg	ggggaagaat	gaaaaacaag	ggaaagcttc	ttattgaaca	ccactttgga	300

atcggaata	ttgaacaaga	acacccggaa	aaaatcaacg	aacttcaagc	ccccttccaa	360
gccaccttct	tgccctgttt	gccccgccc	aatcacaagc	cggggaatgg	caagcttgaa	420
aaagaattcc	cttggggggc	cttgggntcc	caaacccgcc	cacttgtggg	actcttgaag	480
gccctcttgc	atttgtgggg	tgggggtctg	ccttgtggat	aatttttggg	tcattggggc	540
ttgggtcttg	gtccgggntt	ncccatnttg	gtcttggccc	aaggctctat	ggtnggcttn	600
aaatcccttt	ggc					613

<210> 496
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 496						
tcannaaact	ggagggagcg	gncacgncaa	ncganncccc	tgggggggct	ntttaaaaac	60
tttttcaggg	agcccttatg	aaacaaaacc	cgggggttgn	gttanggnata	ctngggctng	120
ngtcccaccc	nactgggttc	ttttttttct	tnttggggcc	ccanaaatgg	aagggggatt	180
gccccaccaa	ngggaccccc	tttccaaacca	gaaccennng	gacttattat	taaacctnt	240
tttttgcgc	cnaccattga	atgggacttt	gnaaccgcga	aaagcttgaa	ggnccattcg	300
gataccgccc	taacccctta	cccccgggga	acaatctttc	attgggaaaa	acaagccggg	360
ntttttttcc	gactttttac	aaagccttcc	cggtngggct	tgggaaggcc	attcttaagc	420
ttggcaagaa	aaacaagcaa	gggaaaggat	gctttccggg	ggaagccctt	gatgccttga	480
aaaatgaaaa	aaattantct	taaaggctat	tcaaataatca	agccaagcca	tttttttcca	540
nggagaaang	gaaaaaaggc	cgaanaaaaa	aacaaatttt	ccaanaatgg	ggttgncttc	600
cttccaaccc	a					611

<210> 497
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 497						
gaacccaaaa	gaatgcccag	aatgccaaga	acagtgaaca	gccatatgca	aacgggcaat	60
actgatgtta	gctttaaaag	taaggagttc	agagtgtctc	gtgctgaaca	tctttcgggtg	120
taattaagcc	ttcatattcc	tgaggaggag	ctactaagac	accctaccaa	gtcctgggct	180
gtgcctggag	gttagaaaac	gaaccacata	gtcctgtaat	gacagaaaaa	aattgaaaac	240
tgtattttta	aaatgatttc	tcaacaagac	cagccggcca	ctcaaccact	tcagtacctc	300
gtttctggat	gaagaccctg	agcaggggat	ttgcactaga	aaccgccttg	cagaagttgt	360
catcattgtt	gatgggcagc	aggtctccgt	gcacatctgc	atagccaata	gttacatcac	420
tgttggagat	atgggtg					436

<210> 498
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 498						
gttctgattg	atnccnaggc	tnttgaagta	naccccacca	tttaagccag	agagggagat	60
tnaagtggan	atngcngcca	cctattatnc	cnngatatat	ttggtatacn	aacnaagaaa	120
ctnaatnatn	aattngacna	tnaattttta	gggaaaagg	aaaagnaaac	nccagggggc	180
cgggtggcaa	tttgntttcc	nttcttagtc	ccttcaaaaa	agtagaaaat	agtgganatg	240
aagcagggtt	gatatgaatt	tggcttgctt	cccccccaaa	tcttaccttt	gcttgnaggt	300
nccataatcc	ccacatgtgg	ggggaggaag	cctttaggag	gtgatttaat	catgggggtg	360
gtacccgcgt	gctgtctcat	gataatgagt	gagttctcca	agaattaacg	ctttttatagg	420
aacctttttc	cccttttact	tggcc				445

<210> 499
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 499						
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aancttneen	ggantaangg	cctaaggng	gcttngacc	aagggaccct	ccaagtcaag	120
gttcctttta	catcacatat	tgggaccccc	aacagctggg	cttccttcaag	gtgagacaag	180
acctgtgggt	tgaatccacc	atttaatggc	tgngtgatca	tgtgcaactt	actcaacctc	240
tcagagcctc	aagtttcttc	attaataaag	tggagataat	aatagaacac	acctt	295

<210> 500
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 500						
ggtttctctg	agttnggatt	ttgctgactg	cacactcacg	gtgctatcca	acatgancat	60
cttccctgca	gtttctacaa	tttggcagtt	ggatccacct	gaatcctttg	gcaaggccaa	120
acgtgggtgc	tnangaagaa	cacattgaag	tctctgtttt	ttaaatatca	ttatgacctt	180
g						181

<210> 501
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 501						
cagaaaactga	gatgaaagct	gggggttgag	atggagtttg	tcattttntg	ancttaaann	60
naccngcntn	ataacaaaag	ccagcncacc	ccanacngga	gaatggaaa	ggaggaaaaa	120
tttgggtccc	gtcttttaca	agggntgntg	agttacttca	ccaatcctgg	aatgctgatc	180
ttttgggaac	ttgttaaaca	gtctttccac	cccccttggt	cgaagctttt	ggtgaagtgt	240
ttcanaaaact	gacgaaatgc	aggatcgttt	tccttacaca	cacaaatgcc	atggcaacag	300
caacttcgtg	acaacagcaa	agaaagccag	actgggaatt	tgccaaccga	gagtgggtgac	360
catctgtgag	ggcccaaaac	cttcaaattg	tgccccgttc	taaagtgcct	atcttaaccc	420
angcttttgt	acatagcaaa	agcgacattt	aaagtgcacat	aagaatggg		469

<210> 502
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 502						
tttttttcca	attggggggg	gaccaaattt	tgnggggttna	aattcccaaa	tanggggtggc	60
cntttttttg	ccttgggaac	gacccatttg	gggggggaaan	ttaaaacccc	ccccttnttt	120
ggcnnenttg	tntgnaaaaag	naaattggcc	ccccggggcc	ctttttttnc	ccctttgggc	180
caaaggggaa	ttttttaaac	cctttaaaaa	attgggtntt	ggccttgggg	gaacctttgg	240
cccaagaatg	ggcccaaaaa	agnggggnacc	cccaataact	nttanccccc	tnntttggcct	300
tggttcaagc	ncccaaaaag	naaaanaaga	ccctggngtc	nnntttggggg	aggtggggng	360
gaaacccaaa	atcccatttn	gggggntttt	ttttaaacct			400

<210> 503
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 503						
ttgggggggg	tttcccccaa	acaaaaattt	tcccgccttt	tctttcagtt	ggannggtgg	60
ggagcccena	atggaactta	aaaatttctt	gttggggggg	tggggaggaa	gaataaaaaa	120
tgcccccttt	nttngggggc	cttggacccc	ttattttggc	cccttgccca	ttgcttgggc	180
ccttg						185